The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

No. 3250 VOL. CXXXVII MAY 23, 1942 Annual Subscription (with Diary) 25/-. Single Copies 9d.

THE LILLY POLICY STANDS ALONE

There is only one Lilly marketing policy. It recognises in full the interests and functions of the Pharmacist as the final step in the chain of distribution and the outlet for all Lilly Products. The soundness of this policy has been proved by years of continuous application.

ELI LILLY AND COMPANY LIMITED
BASINGSTOKE, HANTS

Telephone, Basingstoke 800 Telegrams, Lilly, Basingstoke

Index to Advertisers pp. 5 & 6

WRIGHT'S

are glad to announce that reasonable stocks of

Liquor Carbonis Detergens

Registered Mark

are once more available for Pharmacists, and offer their apologies for the recent temporary and unavoidable shortage of home supplies.

As a result of heavy demands from many overseas service depots, export orders have had to take precedence during past months. Increased production facilities have now rectified this position and orders for the home market can be executed without undue delay. The medical profession is being advised of the improvements in stocks. *Liquor Carbonis Detergens, a stabilised alcoholic solution of Coal Tar, has been recognised for many years by skin specialists as a product of great antiseptic value.*

Sole Manufacturers and Proprietors:

WRIGHT LAYMAN & UMNEY LIMITED

44-50 SOUTHWARK STREET, LONDON, S.E.1

★

Accent on Aneurine

War shifts the balance of a nation's food-habits. Protein and fat become scarcer and dearer. People eat more carbohydrate. And mounting carbohydrate consumption means a mounting need for Vitamin B_1 — as the Government is recognizing by its plans for B_1-fortified bread, and the medical profession by its growing interest in B_1 therapy.

Glaxo Laboratories Ltd. are one of the very few companies in this country carrying out the whole intricate process of producing vitamin B_1 in its pure state. And they issue aneurine hydrochloride B.P. as 'Berin' Tablets, 'Berin' Injection and 'Berin' Forte Injection. In other words, the vitamin which the doctor of 1925 knew simply as the anti-beri-beri factor in yeast and rice-polishings is now accessible as a stable, accurately measurable, pure chemical compound: accessible for the nutritional treatment of a long list of conditions ranging from loss of appetite to polyneuritis of pregnancy, from retarded growth to delirium tremens . . . . One more advance for which your customer, the doctor, has to thank large-scale pharmaceutical production.

BERIN Brand

VITAMIN B_1

ANEURINE HYDROCHLORIDE B.P.

GLAXO LABORATORIES LTD.

GREENFORD, MIDDLESEX. BYRon 3434.

PRODUCT OF THE GLAXO LABORATORIES

KNOX

LABORATORIES LTD.
81 LAMB'S CONDUIT ST.
LONDON, W.C.1

An Appreciation

Mr. G. M. Williams and Mr. F. C. Hewett, on behalf of the Knox Laboratories, Ltd., wish to express to the trade, both wholesale and retail, their appreciation and thanks for the spirit of co-operation and forbearance shown during the recent difficult period. Apart from many difficulties—short staff, supplies, transport, etc. known and experienced by all, we have also had the added strain occasioned by the phenomenal demand for the three major Knox Laboratories' products :

Cystex The GUARANTEED Remedy for KIDNEYS BLADDER RHEUMATISM

Mendaco

NOXCO FOR HIGH BLOOD PRESSURE

Every endeavour upon our part has been and wlil continue to be made to ensure speedy and full execution of orders. For any delays in the past—our apologies.

CYSTEX, MENDACO, NOXCO

are extensively and regularly advertised in national Press.

Crookes' Halibut Oil

Shortage of Capsules

OWING to a Government restriction on Glycerine and Gelatine, and the enormous demand in the early winter months, our supplies of *capsules* have been very severely reduced. Most of the stock available, therefore, has been divided up into the four standard bonus parcels A, B, C, D, and the all-capsule parcels, E and F, have been discontinued. By this means a large majority of Chemists will continue to benefit by bonus in kind and the scheme will operate as long as supplies last.

It is possible that from time to time we may be able to supply small quantities of *capsules only* but orders for these will not receive bonus in kind and no delivery date can be guaranteed.

There is no shortage of the oil itself, the supply of which is under Government control, and we advise Chemists to draw their customers' attention to this fact. Sooner or later the public will have to accustom itself to taking its vitamin treatment in this form, and the refinement in the form of capsules must be dispensed with in order to release the Glycerine and Gelatine for more essential purposes.

Advertisements in the public press will announce the shortage and will support the chemist who may have stocks of oil but not of capsules.

EXTRA 2½% BONUS

Crookes' War Savings Certificate Extra Bonus Scheme

An extra bonus of 2½%—payable in National Savings Certificates—is now available to chemists who are supporters of the Chemists' Friends Movement who hold or will buy at least one Certificate. Write to us for details.

CROOKES' HALIBUT OIL
Standard Bonus Parcels
(Drops and Capsules)

	Bonus	Sell	£ s. d.
PARCEL A = 3 DOZEN			
24 x 5 c.c. Drops	2	2/-	2 8 0
12 x 25 Capsules	1	2/6	1 10 0
			3 18 0
Less 25%			19 6
			2 18 6
,, 10%			5 10
*Amount of cash with order			*£2 12 8
PARCEL B = 3 DOZEN			
18 x 5 c.c. Drops	2	2/-	1 16 0
18 x 25 Capsules	1	2/6	2 5 0
			4 1 0
Less 25%			1 0 3
			3 0 9
,, 10%			6 1
*Amount of cash with order			*£2 14 8
PARCEL C = 6 DOZEN			
36 x 5 c.c. Drops	6	2/-	3 12 0
36 x 25 Capsules	6	2/6	4 10 0
			8 2 0
Less 25%			2 0 6
			6 1 6
,, 10%			12 2
*Amount of cash with order			*£5 9 4
PARCEL D = 6 DOZEN			
30 x 5 c.c. Drops	5	2/-	3 0 0
6 x 15 c.c. ,,	1	5/-	1 10 0
30 x 25 Capsules	5	2/6	3 15 0
6 x 100 ,,	1	8/6	2 11 0
			10 16 0
Less 25%			2 14 0
			8 2 0
,, 10%			16 2
*Amount of cash with order			*£7 5 10

THE CROOKES LABORATORIES (*British Colloids Ltd.*) LONDON, N.W.10
Telephone: Willesden 6313 (5 lines) *Telegrams: Colloscle, Harles, London*

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Pocket Size 7½*d.*
Large Size 1/3*d.*

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[*continued overleaf*

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National advertising ensures public demand

Recommend Calvex for Chilblains, Chapped Hands, Piles and Ulcers

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Gibsons regret that they may not be able to give to all and each of their chemist friends as many MECCA PASTILLES FOR THE WINTER TRADE as they would like; but at any rate they are trying to supply as many chemists as possible with a few tins.

HAVE YOU RECEIVED YOUR SUPPLY YET?

All correspondence direct to

ROBERT GIBSON & SON LTD.

Manchester & London

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Moorlands are in greater demand than ever, due to public recommendation and the Moorland nation-wide advertising. Keep up your Moorland displays and see your sales soar.

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Brand
INDIGESTION TABLETS

W. B. CARTWRIGHT LTD., RAWDON LEEDS

"I know it is difficult"

Your customers continually ask for **SILATEX** and **SANTRON** and yet you cannot obtain sufficient supplies to meet the demand. We are doing our best to arrange distribution to wholesalers so that all Chemists obtain their fair share. The demand is ever increasing but the shortage of raw material is a matter we know you will understand.
There is no shortage of **RENDELLS** or **MENSINOLE** and all Wholesalers now have ample stocks, so continue to display Rendells Products for Feminine Hygiene. It creates new customers and gives confidence to regular users.
Special Chemists' Display Material is still available, so write to-day for a supply.

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SILATEX
SANTRON
MENSINOLE

RENDELLS PRODUCTS

For Feminine Hygiene

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and

TABLETS

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(P.A.T.A. Prices)

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LENNARD, LEE-NARVILL & CO.

EMERGENCY ADDRESS

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Our Report at the conclusion of our 7th Financial Year shows that in spite of difficulties during this period we have continued to give good service to all our friends.

'LEE-NARVILL' Permanent Waving and
'LEE-NARVILL' Toilet Preparations
have been cancelled for the duration.

When times become more normal we shall once again bring to you those 'LEE-NARVILL' Specialties which have achieved and will further achieve world fame.

Today we have a few raw materials and other items available for manufacturers as follows :

We specialise in **PULV. GUM TRAG.'**

Elect "B.P." and Industrial Qualities

FACE POWDER COLOURS specially ground and sifted to simplify the manufacture of Face Powder. *May we send you samples?*

EMULSIFIER for use in the manufacture of White Hair Cream (Oil and Water type) is the 3rd item which will no doubt interest you.

We also have the following available but do not specialise in :

Water, Spirit and Oil Colours. Compound Perfume, Water and Oil Soluble, in small lots. Liquid Shampoo (camomile, coconut oil, pine tar and olive), Hair Nets, various types, Composition Corks, Description Plain Cork with black top, all sizes. Perfumery Labels and Seals.

Further particulars will be gladly sent following your enquiries.

An Open Letter to the Distributive Trades

THE MAN FROM KORAY* does his job—a good job—for you, Mr. Retailer; for you, Mr. Wholesaler; and for us.

For you, Mr. Retailer, because he helps you to profit, right away, from a great line, backed by a great national advertising campaign. A stock of Koray is on your shelves, advertising matter affixed, and you are cashing in almost before he has left your premises.

For you, Mr. Wholesaler, with your shortage of travellers and difficulty in maintaining deliveries, THE MAN FROM KORAY lays the foundation of profitable business because every subsequent order received from retail accounts is passed to the wholesaler to fill.

** THE MAN FROM KORAY has a specified function. He is essentially a "pioneer" man. When he has completed his job in one area he moves on and the resident representative of Koray then takes over, his job being to continue to afford the fullest assistance to wholesaler and retailer.*

For us, the manufacturers of Koray, he represents an invaluable link with our friends in the Trade, and we are confident that we, and all sections of the Trade with us, will benefit from the interest he has created.

To retailers requiring further stocks of Koray we say, please apply to your usual Wholesale House. To wholesalers we say, we are confident that you can meet the demand for Koray which has already been created and which is still, as yet, not fully satisfied. To all we say, if you want any help please write to us, today, personally. The writer promises you an immediate reply. The address is easy to remember.

General Sales Manager.
KORAY LIMITED, BLACKPOOL.

FOR YOUR INFORMATION

PRICE OF KORAY TO YOU		PRICE TO PUBLIC
KORAY UNITS ..	**9/-** per unit	**3½d.** per carton of 5 tablets
(3 cards of 16 cartons, or 1 box of 4 doz.)		
KORAY 10's	**4/6** per dozen	**7d.** per carton of 10 tablets
KORAY 28's	**11/3** per dozen	**1/5** per carton of 28 tablets
KORAY 64's	**22/6** per dozen	**2/10** per carton of 64 tablets
Subject to Purchase Tax at 16⅔ per cent.		*Including Purchase Tax*

KORAY LIMITED BLACKPOOL and at LONDON, N.5

NATIONAL ADVERTISING FOR Optabs EYE LOTION TABLETS now in full swing

Optabs forceful National Advertising has put this ready seller in the front rank of profitable lines. All up and down the country Optabs Eye Lotion Tablets are paying quick dividends to all who stock and display them. Take advantage—now—of one of these bonus parcels.

3 Generous BONUS Parcels

PARCEL "A"
3 doz. 10d.
2 only 3/4d.
Cost (Including Tax) £1.4.0
Sells for (Including Tax) £1.16.8

PARCEL "B"
6 doz. 10d.
1 doz. 3/4d.
2 only 5/6d.
Cost (Including Tax) £3.12.1.
Sells for (Including Tax) £6.0.2

PARCEL "C"
18 doz. 10d.
3 doz. 3/4d.
1 doz. 5/6d.
Cost (Including Tax) £11.12.0
Sells for (Including Tax) £19.16.6

- NO LIMITATION
- ATTRACTIVE PACKS
- EXCELLENT SHOW MATERIAL
- BIG PROFITS

* **A NEW POLICY.** It is our wish to do all business through the wholesale trade. This fact, combined with a shortage of office staff, compels us to decline to open further credit accounts with retail pharmacists. WHEN ORDERING, THEREFORE, PLEASE BE GOOD ENOUGH TO SEND CASH WITH ORDER, OR STATE NAME OF WHOLESALER TO WHOM GOODS SHOULD BE INVOICED.

Retail prices (inc. tax) 10d., 3/4d. and 5/6d.
Trade prices (plus tax) 6/-, 24/-, and 40/- per doz.

OPTABS LTD., 24-26-28 CHAPEL STREET, BRADFORD, YORKS
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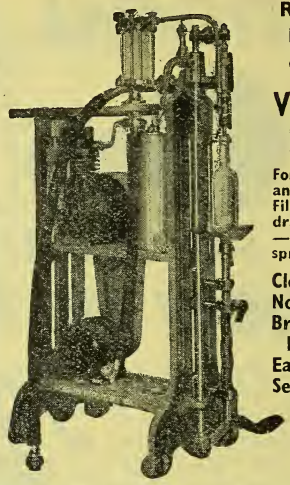

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No Over Filling
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Easy to Clean
Self Rinsing

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Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use
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CELIA
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Soft wool, loop ends. Size 1: Retail 1/6, 13/6 per doz. Size 2: Retail 1/11, 16/6 per doz. Minimum order, one gross. New accounts, cash with order.

N. K. POLLER, CELIA TOWEL MANUFACTURER
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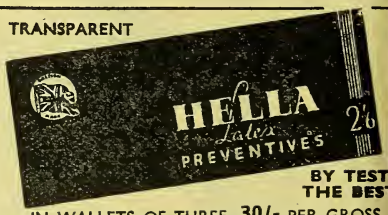

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For first class TABLET MANUFACTURING SERVICE and Chemists' Sundries

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Good! it's MASON'S EXTRACT OF HERB

The CHEMISTS' FAVOURITE for over 75 YEARS

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The TONIC MALT FOOD

With Guaranteed Complement of Vitamins A, B, C &

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The PERFECT air-tight closure for all containers

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CELLULOSE SELF-ADHESIVE TAPE
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Makers of COMPRESSED TABLETS
for the Manufacturing and Wholesale Trade only
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SILSDEN, Nr. KEIGHLEY, Yorks.
Output of Saccharin and Aspirin Tablets sold for some months ahead

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Specialists in the Design & Printing of Medical & Toilet Labels — Send for Free Sample Ranges

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Artists in the Production of Fine Labels

Pears

TRANSPARENT SOAPS

Important Announcement

Certain of the raw materials used in the manufacture of Pears Transparent Soaps are not now available—they are wanted for vital use in the war effort.

Small supplies of both Pears Original and Pears Golden Glory Transparent Soaps will still be available from the stocks laid down in our maturing stores many months ago. These supplies will be allocated among our representatives, who will see that they are distributed among stockists as equitably as possible.

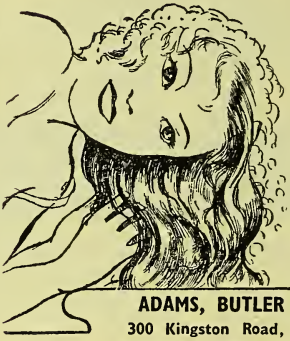
In view of this unavoidable shortage of transparent soaps may we suggest that you offer your customers Pears "Embassy"—a delightfully perfumed, freely lathering opaque soap—price 6½d. per tablet (including tax). We can recommend "Embassy" with every confidence.

A. & F. PEARS LTD., ISLEWORTH, MIDDX.

IT 217/171

BUTLER'S GREEN SOFT SOA

- THE PERFECT SHAMPOO
- THE IDEAL HOUSEHOLD SOA
- THE PEERLESS SOAP FOR AL PURPOSE



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12/- PER DOZ (including tax

CASH WITH ORDER or C.O.D.

RETAIL PRIC 1/6 (including tax)

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FRUIT PRESERVING SOLUTION
(Made to the Campden Formula)
A 1/8 bottle preserves 28 lbs. of Fruit without the aid of sugar or heat
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from 60 Subject

Lost holidays, extra working hours and more worries take toll on health. The benefits of Infra-Red Rays in combating "nerves" and treating such ills as Lumbago, Neuralgia, Rheumatism and Sciatica, etc., are making big demands for this simple for-the-home Infra-Red and Radiant Heat Lamp. Take your share of this business.

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SELL SATISFACTION! SAVE STEEL

The basis of the Multishave is the smoothest, fastest cutting, most efficient abrasive obtainable. Retail, 1/6 each. 8/- per dozen, plus 5/4 tax. Packed 3 dozen per carton. Smart showcards with each order.

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TAX FREE

UNRESTRICTED

THE STAIN-REMOVER WITH THE FILTER TOP

THE LITTLE CHAP

THAT SELLS HIMSELF

"AT YOUR SERVICE"

Don't miss this quick turnover line —

SOME FACTS ABOUT THE LITTLE CHAP

● Removes without trace dirt and stains of all kinds, grease, oil, paint, tar, etc. ● No cloth, No waste ● No loss through evaporation ● Available for instant use ● Very economical ● Non-inflammable.

HOW TO USE

All you have to do is remove outer screw cap, turn the bottle upside down and rub the stain gently to and fro with the cloth filter—the stain disappears as if by magic.

Always on the spot-

RETAIL PRICES
MEDIUM SIZE 1/-
LARGE SIZE 1/6

TRADE DISCOUNT 33⅓%. 13 bottles supplied to every dozen ordered. Stock, show and SELL The Little Chap.

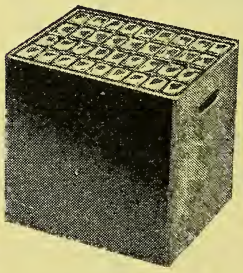
THE LITTLE CHAP

London Pharmaceutical Laboratories Ltd.
37 Bedford Square, W.C.1

"National" Dispensing Bottles

are Strong, Serviceable and Sure-sealing !

NEATLY PACKED IN 6 DOZEN NON - RETURNABLE CARTONS



★ *CONVENIENT IN SIZE*
★ *EASY TO HANDLE*
★ *UNIFORM IN QUALITY*

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Vials

of "NATIONAL" quality

Ranging in size ½ oz. up to 3 oz.
Plain or teaspoon graduations
Medium and tall types

MANUFACTURED IN BEST QUALITY WHITE FLINT, AND PACKED IN FREE NON-RETURNABLE CARTONS

Restrictions outside our control, may not allow us to meet every requirement

National Glass Works (York) Ltd.

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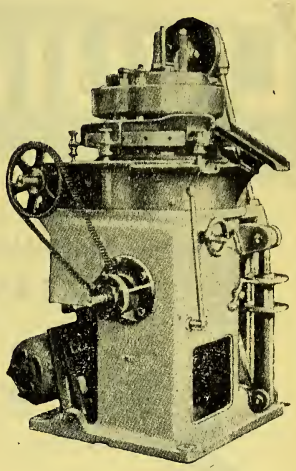

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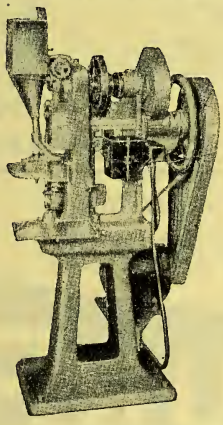

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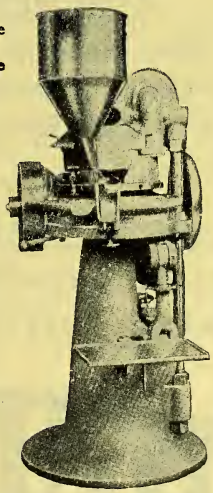

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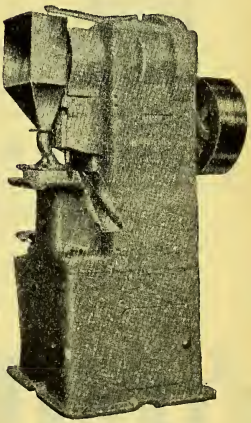

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NEWS OF THE WEEK

New B.P. Addendum.—The Fifth Addendum to the British Pharmacopœia, 1932, was published on May 15, and became official from that date. Copies may be obtained from Constable & Co., Ltd., 10 Orange Street, Leicester Square, London, W.C.2.

Advertisement Lighting Restrictions.—A new Order issued by the Board of Trade came into force on May 18 restricting the unnecessary use of electric or other artificial light inside premises for advertising purposes. This Order, which is entitled the Advertisement Lighting (Restriction) Order, 1942, prohibits the use at any time of lighting, fittings or other appliances whereby electricity, gas or other illuminant substance is consumed for advertisement purposes inside any premises unless it is proved that the use of such fittings or appliances is either (1) "reasonably necessary for the purpose of serving the public and is still being used only during the time the premises are open to the public"; or (2) is only such display of light as is described in Part IV of the Lighting (Restriction) Order, 1940, which permits, subject to specified conditions, certain illuminated signs in shops, residential hotels and places of entertainment. Copies may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2.

Food and Drugs Act Samples.—The Ministry of Health has issued an instruction to local authorities in respect of recent difficulties met with in connexion with the taking of samples of foods the supply of which is restricted and controlled by the Ministry of Food. The instruction (Circular No. 2640) states: "Where a sampling officer is authorised to purchase or take a sample of any article of food, it shall be lawful for him, on producing some document duly authenticated and identifying him as such a sampling officer, to purchase or take such sample notwithstanding any restriction upon the purchase or obtaining of such article of food contained in any Order made by the Minister for the time being in force." This clause has been added

to the Sampling of Food Order, 1942 (S.R. & O., No. 531), made by the Minister of Food.

Later Friday Closing Discontinued.—An experiment by shopkeepers in Bristol of keeping open on Fridays for an extra hour for the benefit of munition workers is to be discontinued on the ground that events have shown that workers do not make use of the facility.

Association of Tar Distillers.—At the annual meeting of the Association recently the following officers and executive committee were elected: *President*, Mr. C. E. Carey; *Vice-president*, Mr. S. Billbrough; *Treasurer*, Captain Harriss; *Auditor*, Mr. E. Hardman; *Committee*, Messrs. S. Hilton, J. Simpson, J. Colligon, W. A. Walmsley, J. R. Lane, C. A. Murray, S. Billbrough, C. F. Ward Jones, R. B. Robinson, W. H. Phillips, J. H. Olliver, A. G. Saunders, H. H. Bates, T. H. Butler, Charles H. Bird, C. F. Dutton, together with the president, vice-president and past-presidents.

Manchester Annual Meetings.—The annual meeting of the Manchester Pharmaceutical Association and the branch of the Pharmaceutical Society was held on May 14, Mr. J. H. Franklin in the chair. The report of the council and the branch executive, read by the secretary (Mr. T. Miller), indicated that most of the activities of the committees during the year had been in connexion with problems arising out of war conditions. The junior secretary (Mr. J. Tomlinson) reported for the junior branch executive. The treasurer (Mr. J. Tyler) submitted the annual reports and balance sheets of both organisations. The auditor (Mr. H. Woodhead) and librarian (Mr. H. Brindle) were thanked for their services and re-elected. A vote of confidence in the Association's council and its junior branch executive and a resolution that they should continue in office were passed unanimously. The old members of the branch executive were re-elected, with the addition of Messrs. C. H. Hands, L. Haselgrove and R. E. Parry to fill vacancies.

Miss Roberts proposed a vote of thanks to the chairman and president. This was passed with acclamation and both gentlemen responded. The chairman (Mr. J. H. Franklin) said he had been disappointed with the Council's action in not taking members of the Society into its confidence over two major events in connexion with Sections 8, 9 and 10 of the 1933 Act, namely two important communications from the Home Office. On the other hand, I was delighted with Mr. Linstead's electio to Parliament; in his opinion it was t most important and encouraging eve that had happened to pharmacy for mar years. From his knowledge of politics, t chairman said it was certain Mr. Linste would require a considerable sum each ye for expenses in his constituency, and M Franklin hoped it would be possible start a Parliamentary Fund, to which eve pharmacist in the country would contribu at least some small amount. Discussi which followed on the report of the Co mittee of Inquiry was introduced Mr. W. E. Phillipson, who spoke from t point of view of public pharmacists.

Chemists' Friends Council.—A meeti of the Chemists' Friends Council was he in London recently, Mr. J. Hearle the chair. The council was informed the death of Mr. A. Macdonald, who h represented Gale, Baiss & Co., Ltd., on t council since January 1941; a letter sympathy on behalf of the Council had be sent to the company and to Mrs. Ma donald, while Mr. R. C. Feather h represented the council at Mr. Macdonal cremation. The Council stood for a f moments as a token of respect. Applic tions were received from the followi manufacturers for inclusion of their nam in the C.F. list and were accepted: H. Carter & Co., Ltd., The Old Refiner Bristol, 2; and Corn Products Co., Lt Ingersoll House, 9 Kingsway, Londo W.C.2. Three others were referred ba for further consideration. The applicati by a C.F. manufacturer to add anoth product to the schedule of his existi agreement was also deferred to enable t secretary to obtain information about formula. Trade terms and retail pric submitted by two manufacturers we approved. The secretary reported th several complaints had been received fro chemists by the N.P.U. regarding shorta of supplies of certain C.F. goods. T reports appeared to indicate that difficulti were experienced to a greater extent C.F. manufacturers than by non-C. manufacturers. The matter was ful discussed, but the Council considered t assertion was not founded on fact. Ni resolutions concerning the constitution a policy of the C.F. Council were receiv from the Thames Valley District Pha macists' Association. A report on t present work of the propaganda su committee was received.

Eire Examination Results.—The following passed the Assistants' examination held recently by the Pharmaceutical Society of Ireland: Thomas J. Bardon; George Mary Commins; Mary Theresa Josephine Connolly; Henry William Ferguson; Bridget (*née* McCarthy) Horgan; Francis Moran; Teresa Mary Murray; Michael Francis O'Connor; David Roice; Winifred Rhatigan; James Rowlette; Denis Kevin Walsh.

East Antrim Pharmacists' Association.—At the monthly meeting of the Association on May 12 a deputation from the Ulster Chemists' Association, consisting of Messrs. P. R. W. Shinner (president, U.C.A.), Steede, and McClenahan (secretary) was present. Many topics of local and general pharmaceutical interest were discussed, and Mr. Shinner conveyed the greetings of the U.C.A. to the Association. Attention was drawn to the new premises recently acquired by the Association in Belfast, and visiting pharmacists were invited to make the fullest use of them. Mr. Hall (president of the local Association) suitably replied. Luncheon was then served. Mr. H. A. Johnston proposed a vote of thanks to the U.C.A. secretary (Mr. McClenahan) for his work on behalf of pharmacy in Northern Ireland.

Irish Drug Association.—Mr. F. X. Meagher (president) was in the chair at a committee meeting of the Irish Drug Association held on May 4. The secretary (Mr. R. J. Kidney) reported purchase of the necessary stock to deposit with the Accountant, Courts of Justice, Dublin, so that the Association might register under the Trade Union Act, 1941, and obtain a negotiating licence. Owing to a possible shortage of the glass phials in which insulin is usually packed, members of the Association were advised to request customers to return one empty phial for each full one supplied, and to draw their attention to the fact that it was the phials, not the insulin, which were in short supply at the present time.

LEGAL REPORTS

Saccharin Tablets.—Nicholas Hall & Son, Ltd., provision merchants, Chalk Hill Road, Wembley Park, Middlesex, were at Bow Street Police Court, London, on May 6, summoned for selling at their branch in New Row, W.C., saccharin tablets at 1d. for five instead of the controlled price of 3d. for fifty, and otherwise than in packets containing fifty or 100 tablets stating the saccharin content of each. Mr. J. L. Poole, defending, said the managing director misunderstood a summary of regulations. He thought traders were allowed a certain time in which to dispose of existing stocks. Defendants were fined amounts of £20 on the first of the summonses and £10 on the second.

Sale of Wines.—At Bolton, on May 15, Mr. Winston Crumblehulme, M.P.S., Hallivell Road, was fined £1,000 for a breach of Section 43 of the Finance Act, 1909-10. Prosecuting for the Commissioners of Customs and Excise, Mr. P. C. R. Noble alleged that the defendant dealt in wines and took orders without a licence. He said that on four occasions the defendant dealt in wholesale wines and on one occasion as a retailer. On five other occasions he took an order, although not licensed to do so. Mr. Noble alleged that defendant saw Mr. Brown, of Waller & Riley, Ltd., chemists, Bolton, and persuaded him to let him sell wine at a retail price instead of wholesale, because there was a shortage. Following evidence of various transactions, Mr. Gilbert Brown, managing director of Waller & Riley, Ltd., Bradshawgate, said the proposal to sell retail instead of wholesale came from the defendant, who wanted to make a little money for himself. The arrangement was that Mr. Crumblehulme should act as agent because he could not sell on his own. He would do it at full retail price, less a discount. On behalf of defendant it was stated that he was formerly an apprentice and then branch manager for Messrs. Waller & Riley. He had occasion to visit the premises in October last when he noticed barrels of wine just out of bond. Told by Mr. Brown that it was to be sent away, wholesale, he said there was no need to do that because he could sell it at a retail price. They discussed the commission. Mr. Brown suggested 7½ per cent., and then agreed to give him 10 per cent. Mr. Brown told him he was not going to accept credit and it would have to be on a strictly cash basis. Defendant said he saw an opportunity as an agent to make money. He had not sold any wine on his own account at any time and every penny received was paid over to Waller & Riley. He then received his commission. Notice of appeal was given.

COMPANY NEWS

PROPRIETARY ASSOCIATION OF GREAT BRITAIN.—Application has been made to the Board of Trade for a licence directing that the Association should be registered with limited liability without the addition of the word " limited." The objects of the Association are described as follows :—

To promote co-operation between persons, firms or companies owning, manufacturing, distributing or acting as accredited agents or representatives for the distribution of proprietary medicines, proprietary foods and beverages, antiseptics, disinfectants and germicides, and allied preparations manufactured or marketed in the United Kingdom of Great Britain and Northern Ireland.

To formulate and establish schemes for regulating the conduct of persons, firms or companies engaged in the industry and for precluding the use of inaccurate or misleading practices.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.—Mr. E. V. Thomas, M.P.S. (general manager), has been elected to the board of directors. Mr. Thomas qualified in 1932 and joined the company as a medical representative in 1934.

P. H. GALLOWAY, LTD.—Net profit for the year 1941, after charging all trade expenses, amounted to £23,311, against £22,316 in the previous year. £2,000 has been placed to taxation reserve, against £987, and a dividend of 10 per cent (as last year) is being paid on the ordinary shares. £14,479 (against £13,808) is carried forward.

COOPER, MCDOUGALL & ROBERTSON, LTD.—Trading profit for the year ended September 30, 1941, amounted to £204,286, against £154,647 in the previous year. Contributions to pension funds, fees, and provision for taxation, reduced the balance to £99,670, against £112,299. An interim dividend of 5 per cent. has already been paid, and no further dividend is recommended. £10,000 (same) has been allocated to special reserve contingencies, increasing this fund to £50,000. £48,986 is carried forward, against £52,770 brought in.

UNICHEM, LTD.—The third annual meeting of Unichem, Ltd., and of the Unichem Association was held on May 6. The chairman (Mr. D. A. Rees) presided. After reserving £350 for income tax and £250 for advertising, a dividend of 10 per cent. was declared, and a small balance carried forward. The two retiring directors, Messrs. D. A. Rees and A. R. Cross, were re-electe Membership of the Association showed steady increase, standing now at 190. M J. L. Wrathall (organising secretary of tl Association) indicated areas from whic additional members would be welcome Mr. E. Skues (managing director, Unicher Ltd.) gave an address on future develo ments of the Unichem plan. He claime that Unichem was putting into practi certain important recommendations of tl Committee of Inquiry set up by the Pha maceutical Society, and cited Clause 6 the " Summary of Main Conclusions " being the " charter " of the Uniche Association.

THE BRITISH DRUG HOUSES, LTD.- Directors' report for the year end December 31, 1941, states that turnov for the year constituted a record in tl company's history, as well as a co siderable increase on the amount for 194 which was itself a record. Gross profit w high, despite a heavy increase in expens but profit after provision for taxation w reduced to £53,268, against £89,833 1940. The causes of this were the hi rate of income tax ; excess profits tax the full rate of 100 per cent. ; and expens not allowed as charges for taxation pu poses. Two years ago (see *C. & D.*, May 1 1940, p. 354), to conform with the Gover ment's policy, the directors announc their intention to reduce dividend ordinary shares from 8 per cent. to 6 p cent., the difference of £8,000 being tran ferred to a " dividend reserve account " which will be available for future di tribution when circumstances permit They now feel that the time has co when this dividend reserve account shou be used, and recommend payment of 2 p cent. gross on the ordinary shares, to l charged against this reserve, rather th appropriating the amount out of profi for the current year. These have be used to increase general reserve, reser for contingencies, and carry-forward. It proposed to allocate £5,000 to gener reserve and a similar sum to reserve f contingencies, leaving a balance to car forward £4,324 higher than in the previo year. The policy of the directors, stat the report, is to allow no considerations heavier liability to taxation to stand in tl way of achieving maximum production a thus making the utmost contribution the national effort.

TOPICAL REFLECTIONS

A Sensible Cancellation

The resolution passed by the Council of the Pharmaceutical Society on the indesirability of holding a branch representatives' meeting in connexion with the next annual meeting of the British Pharmaceutical Conference (p. 547) is a wise step in view of the Government's appeal to all citizens to abstain as much as possible from travelling; and the subsequent announcement that the representatives' meeting has been cancelled is a proper decision. While there are many subjects that can be talked about—or even, given a lenient chairman, talked round—at such meetings, it cannot be urged that pharmacy is at the moment confronted with a situation of so much urgency that the calling together of a representative assembly is justified. We have it on excellent authority, for instance, that the Society "has no parliamentary measure of any kind in preparation at the present time." Whether the relations of the Science Section with the branch representatives are best described as symbiotic or commensal I need not discuss; the point is that the collective topics dealt with by the representatives are secondary to the original function of the Conference.

Science First

Shortly before the outbreak of the last war the Conference instituted a Practice Section for the discussion of subjects other than those indicated in its original constitution. During that war the proceedings of the section were suspended, but in 1919 they were resumed. When, as a result of negotiations between the Council of the Pharmaceutical Society and the Executive Committee of the Conference in 1922, the control of the Conference passed to the Society, this section was taken over, but with a difference. A long statement by the President of the Society included the following sentence: ". . . the subjects dealt with at the Society's National Conference must necessarily be of the same nature and character as those which it had been the practice of the British Pharmaceutical Conference to deal with at their meetings, though some subjects affecting the trading aspect of pharmacy which have been discussed at previous meetings of the practical section of the Conference would be barred." The last clause of the sentence obviously refers to the High Court decision in the Jenkin test case. This pronouncement means not only that non-scientific subjects remained subordinate to scientific subjects, but also that the choice of the former was limited by the scope of the Society's functions. In 1923 the proceedings of the branch representatives' meetings were confined, after an inaugural address and discussion on branch organisation, to the reading and discussion of a paper on the practical training of apprentices and students. If we turn to reports of recent Conferences, it appears doubtful whether this limitation has been strictly adhered to; but I believe a serious effort has been made to confine the resolutions accepted for presentation to matters within the competence of the Society, and border-line cases are not numerous. Branch representatives of small experience should not suppose that they are at liberty to talk at large on trade topics at these meetings.

"Static" Water

The member of Parliament who, as reported on p. 540, asked the Home Secretary a question about preventing mosquitoes from breeding in "open tanks and reservoirs of static water kept for fire-fighting," may or may not have had a profound knowledge of hydrostatics. The Shorter Oxford Dictionary indicates that the primary use of the word was in connexion with the operation of weighing, the corresponding Greek adjective having the twofold meaning "pertaining to weighing" and "causing to stand." There was at one time a static chair, the purpose of which was to determine the amount of insensible perspiration by weighing the body. I was not conscious of losing a vast amount of perspiration on reading the honourable member's epithet; but a friendly protest against using an unusual word when a common one will serve equally well may not be out of place. The eighteenth century was rather given to grandiloquence and to undue expansiveness; Horace Walpole was remarkably free from the weakness, but the conversations in Johnson's "Rasselas" afford some typical examples of the fault. In Chapter III of George Eliot's "Middlemarch" the novelist wishes to tell her readers, in a parenthesis, that the kind of straw bonnet worn by one of her characters was no longer in fashion. This is how she does it: "which our contemporaries might look at with conjectural curiosity as at an obsolete form of basket."

Xrayser

NEW SCARCE SUBSTANCES ORDER

In conformity with Addendum V to the British Pharmacopœia, 1932, the Minister of Health has now made an Order (S.R. & O., No. 709, 1942) authorising the replacement of certain spirits and tinctures by emulsions, concentrated tinctures, and liquid extracts. This Order is drawn up on similar lines to the Scarce Substances Order, 1941, which authorised the replacement of certain potassium salts by the equivalent sodium salts. The new Scarce Substances Order mentions four spirits, those of nitrous ether, aromatic ammonia, chloroform and peppermint, for which authorised alternatives are provided, namely: Liq. æthyl. nitrit. conc., liq. ammon. arom., emuls. chlorof. and emuls. menth. pip.; eleven concentrated tinctures for which formulas are given in Addendum V, in place of dilute tinctures, namely: aurant., capsici, cardam. co., cinchonæ co., gent. co., limonis, lobeliæ aether., opii camph., quassiæ, tolu, valerian. ammon. Excepting tinct. opii camph. co., which is the present liq. opii camph. conc., all these tinctures are new, each one of which is four times the strength of the B.P. tincture. Tinct. zingib. fort. will be used in the correct proportion to replace tinct. zingib. mit., and infus. calumbæ conc. in suitable proportion will replace tinct. calumbæ. There remain ten tinctures which are to be replaced by liquid extracts. These are:—

	Times strength of tincture
Ext. bellad. liq.	25
Ext. cinchonæ liq. ..	5
Ext. colchici liq.	10
Ext. hyoscyami liq. ..	10
Ext. ipecac. liq.	20
Ext. nuc. vom. liq. ..	12
Ext. quillaiæ liq.	20
Ext. scillæ liq.	10
Ext. senegæ liq.	5
Ext. stramonii liq. ..	10

Of these liquid extracts only: ext. cinchonæ liq., ext. quillaiæ liq., and ext. senegæ liq. are not used by the National War Formulary. Ext. quillaiæ liq. is used to make the emulsions of chloroform and peppermint, and it may now replace the tinct. quillaiæ in lot. sulphuris. co. and mist. creosoti et sodii iodidi of the National War Formulary. Ext. cinchonæ liq. and ext. senegæ liq. were used in the obsolete National Formulary in mist. cinchonæ acid. and mist. cinchonæ ammon. and in mist. senegæ ammon. respectively. A notice is being sent to all chemists informing them of the new Scarce Substances Order. It i important to endorse National Healt Insurance prescriptions in which any o these alternatives have been used with th letters "A.A.S." (authorised alternativ supplied) until September 1, 1942, on an after which pricing officers will assume tha the authorised alternative has been supplie unless the prescription has been specificall marked "N.A."

Certain minor amendments to th National War Formulary have also bee made, partly to economise certain sub stances which have unexpectedly becom scarce, and partly to reduce needless multi plicity of formulas substantially identical In the first class are the omission of solutio of burnt sugar from all preparations in th National War Formulary, the reduction i strength of anise oil in emuls. anisi to one fifth, and the reduction of menthol an camphor in the nebulæ of ephedrine an compound menthol and thymol to 4 g per ounce. In the second class are deletio of emuls. paraffin liq. and emuls. paraff. lic cum phenolphthal. and liq. chloroxylenoli and inject. quin. dihydrochlor., which ar replaced by the B.P.C. preparations Chemists should note that stocks of th above N.W.F. preparations may be dis pensed until they are exhausted. Haust chloral. containing in each dose 20 gr. c chloral hydrate flavoured with elixir c saccharin is a new addition to the Nationa War Formulary.

COMING EVENTS

Tuesday May 26

West Ham and Eastern District Associa tion of Pharmacists and Branch Stratford House (Room 7), 43 West Har Lane, Stratford, E.15 (opposite Quee Mary's Hospital), at 7.45 p.m. Annua meeting.

Wednesday, May 27

Western Pharmacists' Association an West London Branch, Pharmaceuti cal Society, Stewart's Restaurant, 5 Old Bond Street, London, W.1, at 8 p.m Annual meeting, followed by discussio on "War-time Business Problems."

Thursday, May 28

Leeds Branch, Pharmaceutical Society Metropole Hotel, Leeds, at 7.30 p.m Annual meeting.

The London Chamber of Commerce Inc., 69 Cannon Street, London, E.C.4 at 2.30 p.m. Sixtieth annual meeting.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4–5 Queen Square, London, W.C.1, on April 28, Mr. J. Evans in the chair. MR. A. DOBSON, Blackburn, offering his resignation as *Chairman*, extended thanks to the Executive for support during the past year, and proposed the election of Mr. J. Evans (vice-chairman), Cambridge, as his successor. This was seconded by MR. JOHN HAGUE and carried. MR. EVANS thanked the Executive for the honour which they had conferred upon him and proposed a vote of thanks to Mr. Dobson, the retiring chairman. Replying, MR. DOBSON considered it had been a great honour for him to have been chairman during the twenty-first anniversary year of the inauguration of the N.P.U., and hoped Mr. Evans would have the privilege of being chairman during the year in which peace was declared. Mr. T. Heseltine, Normanton, was elected *Vice-chairman*, and Mr. A. R. Melhuish, London, was re-appointed *Treasurer*. The General Purposes, Central N.H.I. and Building Committees and organisation subcommittee were re-elected, and representatives were appointed to the Pharmaceutical Society Joint and Parliamentary Committees, Drug Trade Council, and Chemists' Friends Council. The secretary's report on work undertaken during the month was received.

Relations with Pharmaceutical Society

The secretary reported the receipt of a letter from the secretary of the Pharmaceutical Society saying that the interpretation the Executive had placed upon the Council's letter of March 5 correctly expressed the Council's intention. Letters of congratulation to the N.P.U. upon twenty-one years of service to pharmacy were also received from the Council of the Pharmaceutical Society and from Mr. E. T. Neathercoat.

Resolution and Reports

Sunderland Branch of the N.P.U. submitted a resolution urging the imposition of penalties on chemists who persistently infringed conditions of supply of Chemists' Friends goods by displaying non-C.F. goods in their windows. The secretary reported that subscribers to the Air Raid Assistance Fund had been informed that no further call-up of subscription would be made until circumstances warranted it, and that one claim in respect of a five-day closure had been settled since the last meeting of the Executive. Subscriptions to the War Distress Fund totalled £18,570 at the time of the meeting; this amount included a contribution from Mr. Dobson upon the termination of his year of office as chairman. It was resolved that a letter of congratulation should be sent to Mr. Linstead upon his adoption as Conservative candidate at a by-election in the Putney parliamentary division.

N.H.I. Matters

A letter was received from the Ministry of Health suggesting an increase in the remuneration of chemist contractors under the National Health Insurance Acts by one-sixth of existing dispensing fees, in order to recompense them for expenses due to war conditions, the increase to take effect as from January 1, 1942. As the Ministry was only prepared to antedate the increase to January 1, and it was to apply for the remaining period of the war, the Executive considered that an increase of one-sixth was inadequate, particularly since the Ministry had intimated that it would expect no representations to be made to it for a further increase at the termination of the present contract in December 1942. It was resolved that the chairman of the Central N.H.I. Committee, and the secretary of the Union, should be authorised to interview the Ministry. The Committee also considered the period that should be allowed to chemists to dispose of stocks of tinctures, etc., rendered excessive by the imminent publication of an Addendum to the British Pharmacopœia that would replace many ordinary tinctures with concentrated preparations. It was resolved that the Ministry of Health should be approached and asked to allow three months to elapse before the new preparations should come into force for N.H.I. purposes, and that no liability should be placed upon the chemist to endorse prescriptions he might receive during that period.

Anniversary Luncheon

The Executive meeting was preceded by a luncheon given at the Holborn Restaurant in honour of the twenty-first anniversary of the inauguration of the Union. The retiring chairman (Mr. A. Dobson), was the guest of honour, and a presentation was made to Mr. G. A. Mallinson of a silver

salver, suitably inscribed, as a token of the Executive's appreciation of his twenty-one years' devoted service as secretary of the N.P.U. Mr. Mallinson expressed his appreciation and thanks.

Chemists' Defence Association

The terms of settlement of six claims were reported to the directors and approved. The settlements included payments of £15 in a claim arising from the destruction of a shed adjoining a member's premises by fire alleged to have been caused by the negligent burning of rubbish by an errand boy; £23 for damage to a plate-glass window by a cycling errand boy; and £4 for claim due to poisoning of poultry through the use of a proprietary rat-bait which had changed its composition. A claim for damages alleged to have been caused by a fall over a weighing machine outside a member's premises was resisted in the Courts, but the plaintiff secured judgment and an award of damages amounting to £200.

Police Court Cases

The secretary reported the defence of a member against whom a summons under the Food and Drugs Act had been issued in connexion with the sale of a branded tonic wine. Complete vindication of the chemist retailer had not been possible, since the Court had not accepted the view that the chemist had shown all due care at the time when he purchased the article. Members were advised to withdraw the item from sale and to ascertain from their supplier the terms on which its return for credit would be accepted. Defence had also been provided for a member summoned under the Prices of Goods Act in connexion with a sale of a branded proprietary at a price regarded as excessive; a fine of £5 had been imposed.

ULSTER CHEMISTS' ASSOCIATION

The first meeting of the executive committee in the new quarters (see *C. & D.*, May 9, p. 507) took place on May 5, when members inspected the premises. The president (Mr. P. R. W. Shinner) occupied the chair, and there were present Messrs. J. C. Acheson, E. J. Crawford, J. Dundee, R. Gibson, T. A. Gibson, J. N. Hogg, A. E. Johnston, James McDowell, R. A. McEwen, J. McGregor, W. J. Rankin (treasurer), E. A. Richey and A. Steede. The secretary (Mr. James McClenahan) was in attendance.

Vote of Sympathy

The President asked those present to stand in silence in sympathy with Mr. J. N. Hogg, who had recently suffered bereavement by the death of his father, Mr. S. Hogg, Ph.C., an old member of the Association. The president conveyed this vote of sympathy to Mr. J. N. Hogg, who replied suitably.

Clearing House and Unauthorised Retailing

It was decided that a notice should be sent to members advising that the clearing-house scheme would not be put into operation, as the number of replies received to the circular on the matter had been insufficient to justify the undertaking. The Secretary reported that he had asked the Local Price Regulation Committee to investigate the selling of proprietary medicines by certain stores in Belfast, which in the opinion of the U.C.A. were not entitled by law to make sales of these goods since they had not sold medicines during the period stated in the regulations. He had not yet received a report on the matter. The secretary was instructed to press for action and to state the executive committee's view that trading by such stores should be prevented.

Price Changes

The secretary was instructed to advise members of the classes of goods affected by the budget proposal increasing purchase tax from 33⅓ per cent. to 66⅔ per cent., and to advise new retail prices for these goods as soon as precise information became available.

Furnishing of Premises

Mr. J. Dundee proposed a motion standing in his name: That a further sum of £25, in addition to the sums already voted, be expended on furnishing and decorating the Association's new premises. Mr. R. A. McEwen seconded and this was passed. The Secretary reported that, since great difficulty had been experienced in purchasing office furniture, he had, at the direction of the emergency committee, requested members to donate or loan chairs and desks. In response to this appeal Mr. J. Dundee had donated two chairs, and Mr. R. A. E. Simmons an office desk; the president had donated an antique bronze mortar and pestle, and Grattan & Co., Ltd., a number

of ash-trays. A vote of thanks was passed to all the donors. The secretary was instructed to complete all necessary additional insurance consequent upon the taking and furnishing of the new offices.

Correspondence

The N.P.U., Ltd., thanked the U.C.A. for their offer to send copies of the circular concerning the C.F. policy to chemists in Northern Ireland. A suggestion made by the N.P.U. that, of the 7s. 6d. registration fee, 2s. 6d. should be paid to the U.C.A. to cover expenses in connexion with the C.F. scheme, was approved. A letter was read from the East Antrim Pharmacists' Association asking that the U.C.A. should send representatives to the next meeting of that Association at Larne. It was agreed that the president, with another member of the committee and the secretary, should represent the U.C.A. at this meeting. The question of holding a meeting of representatives from each of the local associations of country chemists was discussed, and it was decided that the matter should be left in abeyance until arrangements for the annual meeting were considered.

A report was received from the Northern Ireland Chemists' Benevolent Fund. The president (Mr. P. R. W. Shinner) and Mr. A. Steede were appointed as the Association's representatives on the committee of the Fund.

THE SECRETARY read a letter written by the Ministry of Labour to a member asking for an explanation of his action in dispensing bismuth instead of magnesium trisilicate in January. The secretary was instructed to reply pointing out that general difficulty had been experienced in obtaining supplies of magnesium trisilicate in January since the National War Formulary had only been received by chemists late in December ; he was directed to point out also that chemists in Northern Ireland were at a disadvantage in receiving supplies generally, since the railway companies would often refuse goods for Northern Ireland for weeks at a time, and to ask that the Ministry of Labour should take steps to have this inconvenience to chemists and insured persons minimised.

MR. JAMES MCDOWELL asked the Association to secure better supplies of methylated spirit to chemists who bought from wholesalers. Members who experienced difficulty were asked to write to the Secretary.

ULSTER CHEMISTS' ASSOCIATION. Group photographed at first meeting in new premises of executive committee : *Front row (left to right)*, Messrs. J. McGregor, J. McClenahan (secretary), P. R. W. Shinner (president), W. J. Rankin (treasurer), J. Dundee, A. Steede. *Second row (left to right)*, Messrs. E. J. Crawford, E. A. Richey, James McDowell, J. N. Hogg, and R. Gibson. *Back row*, Messrs. R. A. McEwen, T. A. Gibson, A. E. Johnston, and J. C. Acheson

PARLIAMENTARY NEWS

Restrictive Arrangements by Manufacturers.—Mr. A. Edwards asked the Minister of Production on May 13 whether he had satisfied himself that no restrictive arrangements pertaining to essential products, processes or commodities existed between manufacturers or other businesses in this country and other countries similar to the arrangements recently disclosed in the United States of America.

Mr. Lyttelton: I have made careful investigations . . . and have found no cases of such restriction. I may point out that the Trading with the Enemy Act makes any such arrangements an offence.

Mr. Edwards: Is the right hon. Gentleman aware that there have been very definite arrangements in the past for the exchange of processes, patents, etc., such as those which Imperial Chemical Industries had with German companies? Is he quite satisfied that those arrangements have been cancelled?

Mr. Lyttelton: Yes, Sir.

Retail Trade Committee's Report.—Sir Leonard Lyle asked the President of the Board of Trade on May 12 whether he could arrange to obtain the final report of the Retail Trade Committee before the Whitsuntide Recess; or whether, if that was impossible, he could make some early statement of Government policy towards individual retail traders under war conditions.—Mr. De la Bère asked a similar question.

Mr. Dalton: The Retail Trade Committee is preparing its Report with all possible speed, and I hope it will soon be completed. It would not be proper for me to make any statement of policy or comment on the attitude of traders before I have been able to study the Report.

Answering Mr. Doland, who pointed out that it was twelve months since the committee had been set up, and that many small shopkeepers had been swept away in the meantime, Mr. Dalton stated that the Committee had already made two interim reports.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held at 73 University Street, Belfast, on May 15, the vice-president (Mr. H. F. Moore) in the chair. Also present were Messrs. J. McDowell, C. Abernethy, J. McGregor, J. W. Gray, J.P., W. C. Tate, Dr. S. E. A. Acheson, Professor Mayrs, and the secretary (Mr. D. L. Kirkpatrick).

THE SECRETARY was instructed to send a letter of sympathy to Mr. Glendinning in his illness, and to wish him a speedy recovery.

MR. H. F. MOORE proposed, and DR. ACHESON seconded, the co-option of Mr. James Irwin, The Medical Hall, Dunmurry, as a member of the Council to represent the associate druggists in place of the late Mr. S. Gibson. The motion was passed unanimously.

THE SECRETARY reported that he had sent a telegram conveying congratulations from the Council to Mr. Hugh Linstead, secretary of the Pharmaceutical Society of Great Britain, on his being elected M.P. for Putney.

The following members were appointed to attend the pharmaceutical summer examinations in the Municipal College of Technology: *Monday*—Messrs. C. Abernethy; *Tuesday*—J. Donaghy and J. T. Nicholl; *Wednesday*—W. C. Tate and J. McDowell; *Thursday*—J. McGregor. The examinations commence on June 15.

On the motion of MR. J. W. GRAY, seconded by MR. CHARLES ABERNETHY, it was agreed that the secretary send a letter to the Board of Trade drawing attention to the number of shops outside the profession which were now selling medicaments belonging to the pharmaceutical business. Mr. Gray said that action had already been taken in the matter by the Ulster Chemists' Association, and it was felt that the Pharmaceutical Society should back up their effort.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the *C. & D.*, c/o The Pitman Press, Bath, Somerset.

Waste Paper Salvage.—The man who relaxes is helping the Axis!

TRADE NOTES

Delayed Supplies.—Jason & Stuart (Products), Ltd., Plane Street Mills, Oldham, Lancs, regret inability to supply all orders received, but are making every endeavour to complete outstanding orders as quickly as possible.

Distribution Policy.—Robert Gibson & Son, Ltd., Manchester and London, regret that they may not be able to provide all chemists with as many Mecca Pastilles as they would like, but their policy will be to supply as many chemists as possible with a few tins.

Price Increase.—Owing to increased costs of production Veno Drug Co., Ltd., Manchester, 16, selling agents for Eno's Fruit Salt, are advancing the price of this preparation on June 1. The new retail prices and trade terms are announced elsewhere in this issue.

Jenner's Malted Food.—The makers, Jenner's Foods, Ltd., Ardwick, Manchester, are supplying this well-known product in malted and chocolate flavours, packed in tins of two sizes. An attractive counter display card is at present available. Details will be found in the advertising pages.

Co-operation Appreciated.—Messrs. G. M. Williams and F. C. Hewett, on behalf of Knox Laboratories, Ltd., 81 Lamb's Conduit Street, London, W.C.1, express appreciation and thanks to the trade for co-operation shown during the recent difficult period. Every endeavour is being made to ensure speedy and full execution of orders.

Perfumery Materials.—Lennard, Lee-Narvill & Co., Lee-Narvill Laboratories, 140 Coltman Street, Hull, state that Lee-Narvill permanent-waving and toilet preparations have been discontinued for the duration of the war. A few raw materials and other items are available to manufacturers, including pulv. tragacanth. (elect., B.P., and industrial qualities); face powder colours ; and emulsifier for use in the manufacture of white hair cream.

P. & M. Act Labelling.—Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1, announce in their advertisement in this issue details on the subject of replacing stocks of products the labels and literature of which do not conform to the provisions of the Pharmacy and Medicines Act, 1941. Messrs. Potter & Clarke also invite their customers to communicate with them on any query they may have in connexion with the Act.

Liver Solution for Injection.—Jectemia B concentrated liver extract for intramuscular injection has been introduced by Sharp & Dohme, Ltd., Mulford Biological Laboratories, Hoddesdon, Herts. The preparation contains a small amount of extraneous protein and causes neither pain nor harmful reaction in the tissues. Jectemia B is issued in boxes of five, ten, twenty-five, fifty and 100 2-c.c. ampoules and 10-c.c. and 20-c.c. rubber-capped vials. Literature will be supplied by the makers on request.

P.A.T.A. Protected List.—The P.A.T.A. Protected List and Year Book for 1942 has now been issued. The List shows the basic retail price, standard wholesale price, rate of purchase tax applicable and tax-inclusive retail price of each item. Additions to the List include several well-known proprietaries, among them Owbridge's lung tonic, Phosferine, Liqufruta, Cephos, and Curicones, not hitherto protected by the Association. A supplementary leaflet gives details of additions and alterations made subsequent to the printing of the main list.

Vaseline Supplies.—Chesebrough Manufacturing Co., Ltd., Victoria Road, Willesden, London, N.W.10, advise that, until further notice, all supplies of Vaseline brand petroleum jelly and medicinal preparations will be obtainable only through wholesale sundriesmen. Vaseline hair tonic, soapless shampoo, camphor ice and pomade, which are controlled by the Limitation of Supplies (Toilet Preparations) Order, will continue to be dispatched direct. Requests for quotas for next period cannot be handled until August. Stocks of all sizes of Pineoleum brand preparations are available through wholesalers.

Business Changes

Pallas Oil & Trading Co., Ltd., have removed from Checkendon to their London offices at Imperial House, Dominion Street, Moorgate, London, E.C.2. Telephone : National 7261.

Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.), have removed their offices and warehouses (home trade only) to 12 Red Lion Square, London, W.C.1 ; telephone : Chancery 6621. Export trade and publicity will continue to be dealt with at 183–93 Euston Road, London, W.C.1.

PERSONALITIES

Mr. M. T. Foster, M.P.S., Cullompton, has resigned as a justice of the peace.

Mr. Ewart Woolley, J.P. (Cupal, Ltd., manufacturing chemists), has been elected chairman of Blackburn Liberal Association.

Mr. William Collison, managing director of William Blythe & Co., Ltd., manufacturing chemists, Church, Lancs, has subscribed £500 to endow a cot at Accrington Victoria Hospital in memory of his wife, Mrs. Susannah Collison.

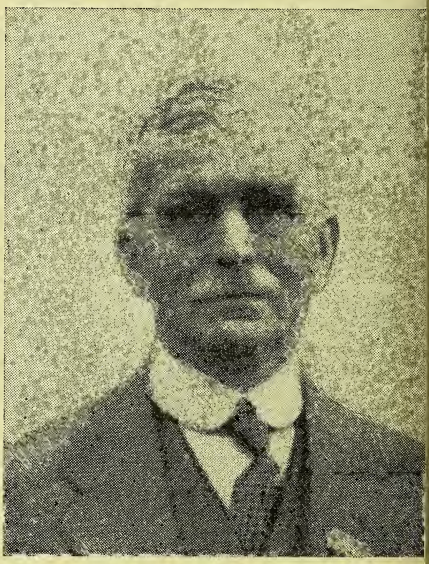
Mr. Donald Wilson, son of Mr. W. Wilson, M.P.S., Darlington Street, Wigan, has passed the final Conjoint examination of the Royal College of Surgeons and Royal College of Physicians, gaining the Liverpool University Lord Derby's prize for surgery, and the R. C. Rich prize for medicine.

Pilot-Officer Robert J. Whittle, Ph.C., R.A.A.F., was recently awarded the D.F.M. for service in Libya. As Sergeant Whittle he shot down seven enemy aircraft in battle over the Western Desert. Pilot-Officer Whittle is twenty-seven. Before enlisting in the Royal Australian Air Force he was in business with his father, Mr. F. C. Whittle, Murwillumbah.

Mr. James Gordon Dare, Ph.C., 6 Church Street, Filey, has left Pensacola naval air-station, Florida, U.S.A., on the completion of his primary and basic training in aviation for the Fleet Air Arm. He has been transferred to the Naval Air Service station at Miami for carrier-based training. Mr. Dare attended the Scarborough High School for Boys for five years and Leeds University for three years. From Leeds he took his Pharmaceutical Chemist qualification. Subsequently he was retained by the University as a lecturer in pharmacy and materia medica until he joined the Royal Navy.

Mr. A. C. Kennett, who has been manager of the pharmacy at the Surbiton branch of Boots, Ltd., for the past fifteen years, has been co-opted a member of Surbiton Borough Council. Mr. Kennett is a native of Richmond and has been a chorister in Richmond Parish Church for thirty-five years. He has taken a keen interest in local affairs and is chairman of the Surbiton Chamber of Commerce. For many years he was associated through the local traders' organisations with the late Alderman Durbin, Ph.C., whom he has now succeeded as the pharmacist member on the Council.

Mr. John Evans, who was recently elected chairman of the National Pharmaceutical Union, is a native of Flanon, near Aberystwyth. Apprenticed to the late



Mr. John Evans, M.P.S.

Mr. J. W. Evans, of Lampeter, he afterwards gained experience at Cheltenham and London, and for some years managed a business at Aberdovey. Later he purchased a business at Fitzroy Street, Cambridge and also one in Mill Road. He has been treasurer and twice president of the local Chemists' Association, and was an active member of the East Anglian Federation when first formed. Mr. Evans is a member of the Cambridgeshire Insurance Committee and eight years ago was elected to the executive of the N.P.U., second division. At present he is vice-chairman of the Welsh Committee for collecting funds to provide a room in the Pharmaceutical Society's new building in memory of the late Sir W. Glyn-Jones. Mr. Evans' chief recreational interest is Freemasonry, in which he is a Past Master and holds several provincial offices. He qualified in 1893, and has a son, Mr. J. G. L. Evans, in business as a chemist at Hertford.

BIRTHS

MUNRO.—At Kilwinning Nursing Home, on April 24, Isabel, the wife of James S. Munro, M.P.S., of a son. Present address, 54 Wallace Avenue, Stevenston, Ayrshire.

MARRIAGES

PLUNKETT — O'SULLIVAN. — At Ballingarry, co. Limerick, on May 5, Thomas Plunkett, L.P.S.I., Ballinlough, co. Meath, to Mary O'Sullivan, Ardagh, co. Limerick.

STEWART—WELSDON.—In London, recently, J. Anderson Stewart, B.Sc., B.L., Ph.C., 4 Bloomsbury Square, W.C.1 (secretary, Middlesex Pharmaceutical Committee), to Enid Lesley Olive Welsdon, B.A.

DEATHS

CHEESMAN.—Recently, Mr. Walter Alexander Cheesman, M.P.S., 441 Great West Road, Hounslow, aged forty-four.

DUSSEK.—At Tudor House, Camden Park Road, Chislehurst, on May 14, Mr. Angelo Sebastian Dussek, managing director, Dussek Brothers & Co., Ltd., disinfectant manufacturers, Crayford, Kent, aged seventy-four.

HORNIBLOW.—At 4 Queen's Buildings, Llandudno, on May 10, Miss Kate Nellie Horniblow, M.P.S. Miss Horniblow passed the Minor examination in 1902.

IMPEY.—At Windmill Hill, Hitchin, suddenly, on May 6, Mr. Arthur Oswald Impey, aged sixty-six. Mr. Impey was a director of William Ransom & Son, Ltd., manufacturing chemists, Hitchin, having joined the company at the age of fourteen. He was responsible for the manufactures of the company and his knowledge of medicinal herbs was unique. Mr. Impey was a leading figure in the sporting and recreational activities of Hitchin, being closely identified with local cricket, football and bowls clubs.

MCHARDY.—At 12 Blenheim Gardens, Wembley, recently, Mr. Alexander McHardy, M.P.S., 204A East Lane, North Wembley. Mr. McHardy passed the Minor examination of the Pharmaceutical Society in 1902.

ROBERTSON.—At Muirlands, Larbert, recently, Mr. George Robertson, chemist and druggist, formerly in business at Partick, Glasgow, aged seventy-six.

SMITH.—At Glasgow Royal Infirmary, on April 25, Mr. Daniel Morrison Smith, M.P.S., Airlie Street, Alyth, aged thirty-eight.

SMITH.—At 74 Lordswood Road, Harborne, Birmingham, on May 11, Mr. Maurice Smith, J.P., Ph.C., F.S.M.C., a director of Cuxson, Gerrard & Co., Ltd., manufacturing chemists, Oldbury, aged seventy. Mr. Smith served an apprenticeship with Mr. J. F. Griffin, Kidderminster. After qualifying as a chemist and druggist in 1892, he passed the Major three years later. He opened business on his own account in Oxford Street, Kidderminster, in 1896, qualified as an optician (F.S.M.C.) in 1901, and in 1909 acquired the business of Morgan & Lawley. Just prior to the outbreak of the last war he established a small manufacturing business. In 1917 this was acquired by Cuxson, Gerrard & Co., Ltd., manufacturing chemists, Oldbury, since which date he had been actively interested in this company. He retired in May 1940. In spite of ill-health he still kept contact through the monthly directors' meetings, on which board he was a life director and a joint managing director with Mr. A. D. Gerrard. Mr. Smith was prominently connected with pharmacy in its national aspects, particularly through the medium of the Birmingham Pharmaceutical Association, and he occupied the office of president in 1934, and was treasurer to the British Pharmaceutical Conference in Birmingham in 1939. Mr. Smith was formerly prominently identified with the public life of Kidderminster, and had been a member of the Oldbury Bench of Magistrates since 1921. A rather interesting point is that he was appointed twice as a magistrate, first in 1908 on the borough bench of his home town, and again in 1921 when his name was included in the roll for the county of Worcestershire. He was a Freemason of high rank in various degrees in the craft, Royal Ark, Rose Croix, and Mark lodges. His chief recreations were bowls and latterly golf. The funeral took place on May 14 and among those who attended were Mr. Maurice Smith, M.P.S. (son), Messrs. E. W. Mann, H. Walsh and D. J. Rushton, and Messrs. A. D. Gerrard, H. G. Matthews, H. J. Blanchard, J. H. Read, H. Hindley, E. E. Blanchard, sen., T. J. Jones, W. L. Humphries, J. Heath, T. L. Wilson, B. Hall, and Mrs. E. Thomas, Miss A. Prince, Mrs. A. Jones, Miss A. Abell, and Miss E. Green represented Cuxson, Gerrard & Co., Ltd.

WILSON.—At 49 Croftend Avenue, Glasgow, recently, Mr. James Alexander Wilson, M.P.S., Duke Street. Mr. Wilson qualified in 1924.

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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire

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The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

National Standards

An explanation seems called for in respect of the announcement that "the Government recognises the British Standards Institution as the sole organisation for the issue, in consultation with any Government, professional or industrial bodies concerned, of standards having a national application." In its widest sense this means that the only body recognised as capable or suitable for the purpose is the B.S.I., and no limit whatsoever is apparently placed on the issuing by it of national standards. It is true the communication calling attention to the arrangement was sent out by the Minister of Production and it may be that the consultations and the standards are intended to apply only to such matters as come within the purview of that Ministry and are not to be of general application. If this is the scope of the arrangement it would have been better to have amended the statement accordingly. The General Medical Council publishes the British Pharmacopœia and the Pharmaceutical Society the British Pharmaceutical Codex and both volumes contain "standards having national application."

In May 1940 the B.S.I. issued a specification for Bleach Ointment (Anti-gas No. 1) and at the time we called attention to the undesirability of a body mainly concerned with industrial standardisation concerning itself with a medicinal preparation. Protests were also made by the secretary of the Pharmaceutical Society and representatives of the Pharmacopœia Commission. The B.S.I. contended that the Bleach Ointment was "a protective rather than a medical device," with which Mr. Linstead and the representatives agreed. Our view on that occasion was that this attitude was wrong. Now, in view of the communication referred to above, it is time for a clear understanding that the formulation of official standards of products having a medicinal or pharmaceutical character should be devised and issued by the organisations whose function it is to do so and not by the British Standards Institution.

Disclosure of the Formula

From July 1 any substance recommended as a medicine is required to be labelled in accordance with the Pharmacy and Medicines Act, 1941, i.e. there must be disclosure of the formula. In the *C. & D.*, April 25 (p. 468), we called attention to a number of difficulties arising in connexion with the requirements of the Act. These included the question whether or not the indication of the dosage constituted recommendation, and we urged the need, failing a decision in the Courts, of official guidance in the matter.

Counsel's Opinion

The subject was discussed at the Council meeting of the Pharmaceutical Society held on May 7 (see *C. & D.*, May 16, p. 548) and it was stated that Counsel's advice had been taken, with the result that the Society is now of the opinion that indication of the dosage in most cases makes an article a substance recommended as a medicine within the meaning of the Act and especially for the purposes of Sections 11 and 12. Thus, where a dose is mentioned on a label, wrapper, advertisement or elsewhere it will usually entail disclosure on the container of the composition of the preparation concerned.

The Pharmaceutical Society has considerable responsibilities in this connexion since it has not only to safeguard the interests of its members but it is also the administering and the prosecuting authority. The Council has, therefore, acted wisely in obtaining legal advice on whether indication of dosage constitutes recommendations, and anyone disagreeing with the ruling given on a particular label must obviously face the prospect of the case being carried to the Courts. The Society's tripartite position is a difficult one, as if a prosecution were instituted for an alleged infringement of the Act and the justice considered the action had been taken unreasonably, considerable harm would be done to the Society's prestige and this in turn would reflect on members.

While the position to which we referred in the *C. & D.* has now been made clearer, the Council could, in our opinion, carry the matter a stage further and so considerably assist manufacturers, i.e. it should make an endeavour to lay down principles on the lines on which it proposes to determine whether or not a preparation is a recommended medicine. The matter was discussed in the editorial article mentioned and if the Council does not act quickly in the manner now suggested it is obvious that chemists and manufacturers, in order to avoid printing costs or possible prosecution, will submit all doubtful labels for decision. A further matter in connexion with labelling on which the Council might offer guidance concerns Section 8 of the Act, particularly as to what can be reasonably regarded as reference to treatment of the kidneys, without incurring the risk of penalties for indirectly alluding to Bright's disease, chest or lung mixtures without implying treatment for tuberculosis, and so forth.

War Damage Insurance

THE Board of Trade, acting through the Insurance and Companies Department, is responsible for three War Damage Insurance schemes: (*a*) the Commodities Scheme, covering traders' stocks, (*b*) the Business Scheme, covering plant and machinery and business equipment generally as well as a special scheme for farmers to cover the farmer's equipment, livestock, crops and goods on the farm, (*c*) the Private Chattels Scheme, i.e. furniture, clothing and other effects belonging to private persons. The department is not responsible for insurance against damage to buildings, houses or other fixed property, or for Marine Insurance, which fall under the War Damage Commission and the Ministry of War Transport.

Business Scheme Compulsory

Insurance under the Commodities and Business Scheme is compulsory where stocks or business equipments, as the case may be, exceed £1,000 in value (£200 in the case of foodstuffs). Insurance under the Chattels Scheme is voluntary. It is noted that if a person does not insure he is not entitled to any compensation, apart from the free cover provided under the Private Chattels Scheme, but there is no free cover under the Commodities or the Business Schemes.

In view of the resumption of bombing, it may be of interest to explain the claims organisation of the Board of Trade and the way in which it is functioning under existing conditions. In order to deal rapidly with all claims, the Board of Trade in June 1941 decentralised the claims administration by dividing the United Kingdom into thirty-five insurance districts, four of which embrace the London area. With the co-operation of the insurance companies and Lloyd's, they have appointed in each district outside London a committee consisting of the managers of the branches of certain of the leading insurance companies in the respective districts, who are responsible for dealing with claims under the commodities and business schemes arising in the districts. In the London area, the arrangement is slightly different.

To assist small traders, particularly in the salvaging of their stocks, the Board of Trade is encouraging the establishment of "Mutual Aid Associations" to act in close co-operation with the district insurance committees. It is most important that traders should familiarise themselves with the Government schemes. They can do so by consulting the insurance company, broker or agent through whom they effect their ordinary fire insurance.

NUTRITION IN WAR-TIME

by Frank Wokes, Ph.D., B.Sc., F.I.C., Ph.C.

VI.—Vitamin and Mineral Requirements

VITAMINS and essential minerals differ from all the other factors so far considered in that deficiency is known to cause disease in which departure from normal health is characterised by definite symptoms becoming more pronounced as the deficiency becomes greater. It is therefore necessary to determine as accurately as possible the requirements of each of the vitamins and essential minerals at different ages and under different conditions in order to be able to assess the value of diets and take steps to ensure that these factors are distributed to different sections of the community according to their need.

Vitamin Investigations.—The determination of vitamin requirements, and their application in human nutrition studies, necessitates the employment of three different types of investigation: (1) The discovery of deficiency symptoms in experimental animals which can be used for detecting sources of the vitamins and for providing a rough indication of the relative potencies of different sources; (2) the development of physical or chemical methods of measuring vitamin deficiency in man; (3) the development of physical or chemical methods of estimating the vitamins. Deficiency symptoms used in experimental animals are not always suitable for application to man. The deficiency symptom may be allowed to develop to a later stage in animals in order to obtain marked effects which are more readily detected and measured. The animals may be killed and histological examination made of their bones, teeth, etc., to determine the degree of deficiency.

Vitamin Deficiencies in Man.—The above methods obviously cannot be applied to man, who on the other hand can be examined by methods involving a higher degree of intelligence than is found in animals. The dark adaptation test for vitamin A in which the subject has to read letters on a card will serve as an example. The tendency in studies of vitamin deficiency in man is to rely more and more on biochemical tests applied to the blood and urine. For example, deficiency of vitamin D in young children was formerly detected by rachitic symptoms depending on imperfect bone formation. Accurate assessment of the degree of deficiency depended mainly on *x*-ray photographs. A more reliable and accurate method has now been found in the determination of the phosphatase content of the blood. This increases to two or three times the normal value in rickets, appears before other symptoms, and is the last symptom to yield to treatment.

Vitamins and Growth.—The accompanying table summarises deficiency symptoms commonly used in experiments on animals and in nutrition surveys on man. In animals assessment of the degree of deficiency is often subjective, depending on personal assessment of anatomical or histological features which, although specific symptoms, of deficiency are difficult to assess accurately and therefore subject to high experimental errors. More accurate methods depending on subnormal growth have been successfully applied to vitamins A and B_1

SYMPTONS OF VITAMIN AND MINERAL DEFICIENCIES

Vitamin or mineral	Deficiency symptoms	
	Experimental animals	Man
A	Subnormal growth, xerophthalmia.	Slower rates of adaptation to darkness, lowered vitamin A content of blood.
B_1 Aneurine Thiamine	Subnormal growth, polyneuritis in birds.	Lowered body reserve, neuritis in legs with altered knee-jerks.
B_2 Riboflavin Lactoflavin	Subnormal growth, nutritional cataract in rats.	Lowered body reserve, digestive disturbances.
Nicotinic acid	Black tongue in dogs.	Lowered body reserve, pellagra.
B_6 Pyridoxine	Dermatitis in rats.	Lowered body reserve.
C Ascorbic acid	Deficient teeth, bleeding of gums.	Lowered body reserve.
P Hesperidin	Increased capillary fragility.	Increased capillary fragility.
D Calciferol	Deficient calcification in bones of young rats, puppies, etc., as shown by *x*-rays or "line test."	Increased blood phosphatase, rickets.
Calcium	do	do
Iron	Lowered hæmoglobin content of blood.	Lowered hæmoglobin content or red cell count.

and riboflavin. Such methods are not specific, because subnormal growth may be caused by a deficient supply of any one of a number of factors. Therefore it is necessary in growth tests to ensure that the diet of the experimental animals contains a sufficient supply of all the essential factors except the one being investigated, of which it should contain as little as possible. This may be done by means of (*a*) negative control experiments, in which the animals are given the basal diet only, when they should develop deficiency symptoms specific for the given vitamin ; (*b*) positive control experiments, in which the addition of a known amount of the given vitamin to the basal diet prevents the development of the specific symptoms. Such methods are not applicable in human nutrition studies.

Body Reserves of Vitamins.—The fat-soluble vitamins A and D (and probably also E) are stored in the liver and other organs in amounts which vary considerably but in adults may be sufficient for several months' supply. Hence a diet deficient in these vitamins may take weeks or months to produce any visible effect in adults. On the other hand, the water-soluble vitamins B complex and C are stored in relatively much smaller amounts in adults, and deficiency soon produces a serious depletion in the body reserves. If a person with depleted body reserves is given a large dose of the vitamin most of it is retained in the body to make good the deficiency. If a normal person takes such a large dose, most of it is excreted in the urine. Thus a method is provided of measuring the body reserve of the vitamin. A large dose of it is taken daily, and the amount excreted in the urine is roughly determined. If the diet taken during the previous few weeks has been providing sufficient vitamin, the body reserve will be very high, and after the first day or so most of the vitamin given will be excreted in the urine. The more of these daily doses which have to be given to produce the large excretion, the lower is the body reserve. This type of test—a urine saturation test—is being widely used to estimate the human requirements of vitamins B_1 and C.

Blood Tests for Deficiencies.—These are much less commonly employed than urine tests to determine vitamin deficiencies in man, but are of great importance in measuring deficiencies of calcium and iron. Determination of the hæmoglobin content of the blood is probably the simplest and most widely employed test for a dietary deficiency that has yet been devised. The blood being on the whole much more difficult to examine than the urine has prevented widespread application of estimations of the vitamin A or C content of the blood, although this might detect deficiency.

Requirements of Vitamin B.—Moderately active adults on diets providing 3 to 3·5 thousands of Calories daily require daily about 1½ mgm. of vitamin B_1, 2½ mgm. of riboflavin and 15 mgm. of nicotinic acid. The requirements are roughly parallel to the food intake. Thus a child of two years may require only half a milligram daily of vitamin B_1, which is a third of the normal adult requirement, but as such a child will eat only about a third of the amount of the food eaten by the adult, the concentration in the diet should be the same at all ages.

Requirements of Vitamin D.—These differ markedly from those of the B vitamins in being much greater in children than in adults, as might be expected from the fact that the vitamin is needed mainly to ensure assimilation of calcium and adequate bone formation. Probably because a rapid and reliable chemical or physical test for vitamin D is not yet known, accurate figures for vitamin D requirements are lacking. All the evidence so far obtained goes to show that the vitamin D requirements of children are considerably greater than those of adults, and when it is realised that these requirements have to be supplied in a smaller quantity of food the need becomes clear for children to be allotted foods specially rich in vitamin D and calcium, or else provided with special sources of these factors. Whilst an adult may require only 200 to 400 I.U. daily of vitamin D, an infant may require five to ten times this amount.

Requirements of Vitamin A.—An adult requires probably 4,000 to 5,000 I.U. daily of vitamin A, provided either as preformed vitamin from animal foods or as carotene from vegetable sources. Children in their 'teens are thought in this country to need more vitamin A than adults, but the most recent American figures indicate that the vitamin A requirements resemble the vitamin B requirements in being roughly parallel to food intake. Probably it will be safer to give the children the benefit of the doubt and assume they need more vitamin A than adults.

Requirements of Vitamin C.—Adults require about 50 mgm. daily, and children less, about in proportion to the food intake. These estimates are subject to certain corrections which will be discussed later.

COMPILING A WAR FORMULARY

THE last afternoon meeting of the session was held by the Pharmaceutical Society at Friends House, Euston Road, London, N.W.1, on May 13, the president (Mr. W. Deacon) in the chair, when a lecture on "Prescribing in War-time" was given by Mr. Philip Hamill, M.D., D.Sc., lecturer in pharmacology and therapeutics, St. Bartholomew's Medical College, and chairman of the National War Formulary Committee. Opening the meeting, the president took the opportunity of congratulating the secretary, Mr. H. N. Linstead, O.B.E., M.P., on behalf of the members of the Society, on his recent success in the Putney by-election. Dr. Hamill said—

Despite the ancient motto "Tuto cito et jucundo" it is now necessary to obtain the maximum therapeutic efficiency in the shortest possible time with minimum demands on national resources in money, materials, man-power and transport.

Principles of Economy.—For teaching purposes I suggest principles which, if systematically applied, will result in economies without great strain on the memory:—Shipping shortage must be respected; munitions must have priority, except for really essential medical purposes, in claims on materials, reagents, manufacture and transport; foodstuffs, human or animal, must not be wasted or diverted to pharmacy without real necessity; simplicity is essential; most flavouring agents are unessential and should be omitted; elegance must give way to efficacy; proprietary names, especially of enemy origin, should be avoided. The foodstuff category covers many substances if derivatives are recalled. Proteins and animal products include liver (controlled by Orders), hormones and gland products. Fats include cod liver oil, vegetable oils, many liniments and lard used in ointments, glycerin. Carbohydrates and derivatives include starch in dusting powders, malt extract, sucrose, dextrose, glucose, honey, alcohol as such and in tinctures, citrates.

Glucose.—How often are dextrose and glucose required? Many hundreds of tons are imported annually across the Atlantic. The quantity could be reduced to a quarter or less without disadvantage and with great economy in money, at least. Their extensive use is largely the result of fashion. Except by infants sucrose is readily hydrolysed and absorbed almost as quickly as glucose. In hypoglycæmia after insulin the best sugar is that most readily obtainable, and even in these days sucrose can be got at once in every household. The normal end-product of the digestion of starch is dextrose. In most cases where it is desirable to increase carbohydrate intake potato or bread amply suffices. Many children for whom glucose is so commonly prescribed will eat large quantities of potato, properly cooked. The statement in the N.W.F. is admirable in its accuracy and simplicity: "Dextrose and glucose are rarely necessary except for intravenous and rectal administration."

Alcohol.—This is essential in large quantities in the manufacture of munitions. Every available drop should be conserved. Much is used for treating patients' backs. Carefully controlled observations have proved that it is mostly quite unnecessary for this purpose. Zinc sulphate in half to one per cent. solution is quite satisfactory for general use.

The importance of economy in liquid paraffin is easily impressed, for it is associated with the petrol difficulty. Potassium shortage is familiar, but that of belladonna and its derivatives is less appreciated. So many are the derivatives of the phenol group that it is not so easy to bear them all in mind and the numerous advertisements of aspirin and similar pain removers seem to belie our efforts.

What proportion does prescribing by doctors bear to the total medical use of drugs by prescription by laymen, nurses, pharmacists, etc., as the result of oral recommendation, advertisements and window displays? To what extent are prescribing and dispensing on a real war footing? For my own part I think we still have a long way to go to secure economy in these directions.

Proprietaries.—The whole problem of supplies to makers of proprietaries, of self prescribing, display and advertisement seems to call for action more urgently even than medical prescribing. One read not so long ago annual reports of large firms and trusts whose products are mostly bought otherwise than by medical prescription. The profits of one was roughly half the total cost of N.H.I. prescriptions for the whole country.

Ideally every prescription should be individual to the patient and his disorder and

should be based on answers to the following questions :—What is amiss ? What physiological effect is it desired to produce ? How may this best be achieved ?

Origin of N.W.F.—Sir Wilson Jameson, the senior medical officer of the Ministry of Health, called a conference of representatives of various bodies. It was agreed that all formularies would need revision in view of war conditions and it was desirable that they should be unified—a single formulary should be compiled which could be used for institutions, private and N.H.I. practice and for the Services. It would greatly facilitate the exchange or transfer of medical officers and patients between institutions. The Royal College of Physicians endorsed the scheme and nominated me as its representative on the Committee to compile the formulary.

To be of real value the formulary had to represent fairly the practice of prescribers of every variety of training and tradition throughout the country. The Pharmacopœia of one of our larger teaching hospitals contained under forty mixtures, the old National Formulary nearly one hundred; the N.W.F. has fifty-seven. It was most desirable to have knowledge of what is in fact most prescribed. The Ministry officials provided this information by analysing and tabulating no less than 50,000 N.H.I. prescriptions taken at random throughout the year from scripts from all parts of the country.

Problems Involved.—The digestive-system group of formulas gives some illustration of our work. The mixtures now form a series starting from those containing bitters which improve appetite, then the carminative and neutralising group, and finally the intestinal sedative or diarrhœa group and the laxatives. The bitters illustrate some of our problems. The traditional bitter is gentian, of continental origin. Calumba and quassia need long voyages but are easy to prepare and are compatible with both acid and alkali while home-produced hops are not. Other substances, e.g. brucine, could not be regarded as generally acceptable. Our choice finally fell on quassia, which has many advantages. It is used in 1 per cent. infusion against calumba 5 per cent. The infusion is perhaps the easiest galenical to prepare, and being made with cold water needs no fuel. Apart from the fact that mixtures made with fresh infusion are much superior, there seems no justification for using the concentrated preparation which contains alcohol.

A bitter, such as a gentian mixture, has long been a favourite for convalescents to aid appetite. In order to improve muscular tone strychnine as nux vomica is commonly added. The nux vomica is bitter enough by itself, hence gentian or quassia is redundant and in the N.W.F. it is omitted and the nux vomica used alone.

Alkaline therapy has often been excessive. Many patients have shown symptoms of severe alkalosis, especially those indulging in self-medication with various much-advertised stomach powders. Doses capable of neutralising two-thirds of a litre of decinormal acid (which may be taken as equivalent to good gastric juice) were quite normal. An attempt to guard against this risk has been made. In no case is the dose prescribed capable of neutralising more than 250 c.c.

Criticisms.—Critics of the formulary have said that it contains too many formulas and that their number could be materially reduced. Reduced, yes, but not materially if it is to retain its value. Admittedly there are some which I cannot imagine myself ever prescribing and which, perhaps, I could not commend to my students. But the formulary is not mandatory, it is not a textbook of prescribing (though it does make many valuable suggestions and it does not exclude extempore prescribing). It must serve as a link between prescriber and dispenser. Hence if a certain formula is extensively prescribed it has claims for consideration for inclusion on grounds of convenience.

Propaganda and Results.—Articles in the medical Press are of value. Since most doctors in private practice do N.H.I. work I think it will be found that they will use the N.W.F. more and more. There will always be some who are slow or reluctant to change their ways. Hospitals are a really great field for propaganda. One of which I have knowledge adopted it forthwith to the exclusion of all others. Most have been sluggish. Not until January were the E.M.S. hospitals circularised, but in April they were instructed that the N.W.F. should be the only formulary used and no preparation should be prescribed by title unless in the B.P., the B.P.C. or the N.W.F. and that when preparations are prescribed in detail the recommendations in the beginning should be followed.

Hospital Physicians.—There is a great field open to the keen and tactful hospital pharmacist to do good work in the national

interest. In my experience junior resident medical staff are as a rule only too willing to receive guidance in these matters and readily respond to tactful handling and helpful suggestions.

The Formulary is necessarily a compromise. Suggestions for its improvement will always be most welcome. My colleagues and I make no claim that it is perfect, but we do claim that we have made a fair attempt at an important piece of work, that we have gone some way to solving a problem, and that we have made some contribution to the national welfare and to the conduct of the war. We feel that the book is not unworthy of its title. Its adoption should benefit individuals and in no way be harmful to the community. Indeed, I suggest that we should Latinise this and adopt it as a motto :—

" Quod singulis prosit, nec universis obsit."

Discussion.—The following is a summary of the points raised. Asked if liniments should be prescribed in 1-oz. instead of 2-oz. quantities, Dr. Hamill thought that it would be a very good thing if the public could be educated to use 1-oz. instead of 2-oz. Answering a question relating to burnt sugar, he said he thought that sugar should be eaten for its value in metabolism and not burnt, and hinted that burnt sugar might be withdrawn in future.

Mr. F. G. Wells thought that the National War Formulary was quite satisfactory, but he felt that many pharmacists would be left with large stocks of galenicals which are not required since the introduction of the Formulary. He thought that practising Panel chemists might have been better represented on the committee responsible for the Formulary. In reply Dr. Hamill said that in compiling the Formulary he had no particular interest about anyone's personal convenience except that of the patient. He said the task before the committee was to prepare what was considered to be generally the most useful and practical Formulary. This had been their single aim. There had been much controversy about when the Formulary should come into force, but the Ministry of Health was responsible for fixing the date. Asked why mist. digitalis N.W.F. contained ♏ 10 of acid. hydrochlor. dil. per dose, Dr. Hamill said that a large proportion of patients needing digitalis have congestion of the liver and the gastro-intestinal tract with deficiency of hydrochloric acid in the stomach. Furthermore, digitalis keeps better in slightly acid solution. He took full personal responsibility for this and said that although this may not perhaps be the best method of administering digitalis, it is a good form of digitalis mixture. He did not think the dose of ♏ 10 acid. hydrochlor. dil. was excessive. He said that the aim of the committee had been to provide a range of medicines to meet the ordinary requirements of therapeutics. Asked why the formula of lotio calaminæ was only slightly altered, he said the amendment was probably to translate the older formula to a simpler one, e.g. calamine and zinc oxide 5 per cent., glycerin 3 per cent. To prevent any doubt about the requirements of a prescriber the latter should, if the formula was not in the B.P., B.P.C. or N.W.F., write the formula in full. Dr. Hamill recommended that if a formula is in the N.W.F. as well as in the B.P. or B.P.C. the N.W.F. should be chosen.

Referring to the medical use of glucose, he said that he saw no reason why sucrose should not be substituted for glucose in the interest of economy. To fill up the liver before an operation to prevent shock was highly desirable, but he thought this could be done satisfactorily by the use of sucrose.

Proposing the vote of thanks, Dr. C. H. Hampshire said that Dr. Hamill had a sincere liking for pharmacy and a desire for its welfare. He thought that the production of the N.W.F. was a notable piece of work and that Dr. Hamill had driven his varied team on the committee very well in arriving at the final Formulary. He thought that it might be some time before the Formulary was properly assimilated, but that most of the difficulties discussed would disappear with assimilation. He thought that any stocks held by pharmacists would be absorbed in time. Seconding, Miss E. Hodgkinson said that in her experience hospital doctors were doing all they could to co-operate in the use of the N.W.F.

Private Employment Agencies.—The London Chamber of Commerce has sent a letter to the Minister of Labour asking for an assurance that there is no intention on the part of the Government to eliminate private employment agencies after the war. The letter urges the Chamber's view that a monopoly of employment agencies, even though Government-owned, would constitute an undesirable curtailment of the liberty of the subject, and points out that private fee-charging agencies have been able to function successfully despite the free services offered by the State in recent years.

CHEMICAL TRADERS' ANNUAL MEETING

THE nineteenth annual general meeting of the British Chemical and Dyestuffs Traders' Association was held on May 13, Mr. A. F. Lawson (chairman) presiding. Following the adoption of the accounts Mr. Lawson referred to the fact that the year 1941 had proved yet another period of progressive activity for the Association. Throughout the year, he said, the distribution of chemicals was well organised to meet the requirements of the essential consuming industries, and problems of supply, due to the scarcity of some products, were often surmounted by the resourcefulness of chemical traders in finding substitute materials. Frequent bulletins were issued by the Association drawing the attention of members to matters of special interest, and cordial relationships were maintained with Government departments. There was no doubt, he thought, that the contacts established between the Association and the various controls have contributed to smooth working.

Representative Groups

To facilitate the work of the Association action was taken to set up a representative group for each of the main classes of chemicals, and subsequently each group appointed a standing committee to examine such questions as may arise of special concern to that particular section of the trade. Several matters of concern to the heavy chemicals group, the wood distillates and allied synthetic products group and the group for pigments, colours, minerals and extenders were considered, before the groups were formed, by interested firms.

A number of questions were raised for the consideration of the coal tar products group. With regard to cresylic acid the proposal to fix maximum prices for the product was the subject of discussions between the Association's coal tar products group and the Coal Tar Controller, with the result that provision had been made for merchants handling cresylic acid in the Coal Tar Acids Prices Order. Because of the increasing importance of coal tar products to the war industries provision had been made in the Coal Tar Order for a wider form of control. The standing committee of the coal tar products group was giving active consideration to these matters and he did not doubt for a moment that by close co-operation between the Association and the Coal Tar Controller any problems that were likely to arise would be surmounted.

Lease-Lend Arrangements

Of the several questions which had been before the standing committee of the drugs and pharmaceuticals group the most important was that concerning the distribution of products under Lease-Lend arrangements. This matter was originally raised in June last when the executive council decided to draw attention to the need for maintaining the normal channels of distribution for imported chemicals. At the request of the Ministry of Supply the Association had agreed to organise, as agents for the Minister, the distribution of a number of products imported into the United Kingdom on Lease-Lend terms. The scope of this work was at present limited to a range of pharmaceutical products and members of the drugs and pharmaceuticals group were already acquainted with the procedure that was being followed. Should products of interest to other sections of the trade come within the scheme the appropriate group would, of course, be consulted.

In concluding his report Mr. Lawson emphasised the importance of approaching mutual problems collectively within the Association and pointed out that problems of reconstruction after the cessation of hostilities would only be surmounted by the closest co-operation in all trades and industries. The report was adopted with expressions of warm approval.

Election of Officers

The following elections took place: *President*, Mr. Victor Blagden; *Vice-president*, Mr. S. J. C. Mason; *Chairman*, Mr. A. F. Lawson; *Vice-chairman*, Mr. G. S. Bache; *Treasurer*, Mr. C. W. Lovegrove; *Auditor*, Mr. B. C. Hughes; *Executive Council*, Mr. E. F. J. Arnold, Mr. W. Beckley and Mr. S. R. Price.

RED CROSS FUND.—Recently, Lord Southwood (chairman of the Red Cross Penny-a-Week Fund) made a special appeal to employers who are not already doing so to help the Red Cross and St. John by giving their workers facilities for joining the Penny-a-Week Fund. In the first ten days following the appeal no fewer than 1,050 employers, employing approximately 150,000 workers, responded favourably. Of these 220 were London firms. The final results of the appeal may not be known for some weeks.

TRADE REPORT

Spot prices for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, May 20

BUSINESS in the London drug markets continues restricted, and sales are mostly for current consuming requirements. Few price changes have occurred, and there is certainly no tendency towards any lowering of values. PHARMACEUTICAL CHEMICALS have been "marking time prices remaining steady."

Crude Drugs

Market business in these commodities has been poor, but merchants report a fair consuming trade. AGAR has been in small inquiry, and one or two bales of "free" material have gone into consumption. Fair interest has again been shown in Cape ALOES. ANTIMONY is in fair supply for official requirements, but not for other uses. Considerable variations are noted in holders' ideas of the value of Sumatra BENZOIN. BUCHU LEAVES remains firm and in meagre supply. Approved consumers of CAMPHOR have again taken steady supplies at previously recorded prices. Plentiful supplies of ERGOT are available, but little interest is being displayed. No information has yet been received from the Ministry of Food regarding fixed prices for GINGER, and quotations are nominal, with supplies restricted. Business in IPECACUANHA is moderate; shipment offers of Matto Grosso are difficult to obtain. Prices of NUTMEGS remain at the slightly lower levels noted last week. Some West Indian bitter ORANGE PEEL is available on spot. PIMENTO is steady on spot at the increased price recorded last week. Some Indian PSYLLIUM SEED is quoted for shipment. Rather more interest is being taken in RHUBARB. The only change in SEEDS is a higher price now being quoted for English MUSTARD. SENEGA remains in poor supply.

Essential Oils

Demand for these products continues quiet, with few price changes to record. Rather more interest is noted in ANISE (STAR), but supplies are difficult to find. BAY is rather higher. CANANGA prices show a tendency to rise. CEDARWOOD is nominal. The supply position of PEPPERMINT remains difficult.

Pharmaceutical Chemicals

ACETANILIDE.—There are no changes in the supply position or prices: B.P.C. crystals and powder, 2s. 4d. to 2s. 6d. per lb.

ALLOBARBITONE.—Supplies are available from British makers at around 60s. per lb.

AMPHETAMINE.—British makers can supply at about 150s. per lb.

BENZOIC ACID.—In fair supply for medical use at about 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—Supplies are obtainable for medicinal purposes at around 4s. 6d. to 5s. per lb., according to quantity.

BORAX.—Makers' prices are as follows: B.P., granulated, £39 10s. per ton; crystal, £40 10s.; powder, £41; packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

BORIC ACID.—For one-ton lots and upwards, packed in one-cwt. bags, delivered carriage paid in Great Britain, makers charge as follows: B.P., granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Commercial grades, £8 per ton less.

CITRATES.—Makers' prices for POTASSIUM, B.P., in quantities of 28 lb. to 1 cwt. are as follows: 28-lb. parcels, 2s. 11d. per lb.; 14-lb. parcels, 2s. 11½d.; 7-lb. parcels, 2s. 11¾d.; 4-lb. parcels, 3s. 0¼d.; 1-lb. parcels, 3s. 2d. Prices of SODIUM, B.P., are at one penny lb. below, and IRON and AMMONIUM (SCALES), B.P., at threepence per lb. above these prices. Packages are charged extra.

CODEINE.—Makers' prices are steady, as follows: ALKALOID.—½ oz., 43s. 3d. per oz.; 1 oz., 40s. 9d.; 2 oz., 39s. 3d.; 3 oz., 38s. 6d.; 4 oz., 38s. 3d. PHOSPHATE.—½ oz., 36s. 3d.; 1 oz., 33s. 9d.; 2 oz., 32s. 3d.; 3 oz., 31s. 6d.; 4 oz., 31s. 3d.

HEXAMINE.—Free-running crystals would be worth about 2s. 3d. per lb., and ordinary fine about 1s. 10d., in cwt. lots, packing extra but returnable.

IODIDES.—Steady at makers' prices: POTASSIUM IODIDE, B.P.—112 lb. 8s. 8d.; 28 lb., 9s. 2d.; 14 lb., 9s. 8d.; 7 lb., 11s.; 4 lb., 11s. 6d.; smaller quantities, 12s. per lb. SODIUM IODIDE, B.P.—28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 7d.; 4 lb., 12s. 3d.; smaller quantities, 13s. 1d. per lb. IODOFORM, B.P.—28 lb., 12s. 1d.; 14 lb., 12s. 7d.; 7 lb., 14s. 9d.; 4 lb., 15s. 7d.; smaller quantities, 16s. 5d. per lb.; crystals, 2s. per lb. extra. IODIDE RESUBLIMED, B.P.—112 lb., 9s. 11d.; 28 lb., 10s. 5d.; 14 lb., 10s. 11d.; 7 lb., 12s. 6d.; 4 lb., 13s. 2d.; smaller quantities, 13s. 11d. per lb.

METHYL SALICYLATE.—In restricted supply, with makers' prices unchanged: Five cwt., 1s. 10d. per lb.; one cwt., 1s. 10½d.; smaller lots, in bottles, 2s. 0½d. per lb.

PHENAZONE.—Any available small supplies would fetch about 19s. per lb.

PHENOLPHTHALEIN.—No changes have been notified in makers' prices: Less than 7 lb., 4s. 3d. per lb.; 7 lb., 4s. 2d.; 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt., 3s. 11d.

PILOCARPINE.—Makers quote as follows: BASE.—25 oz., 26s. per oz.; 4 oz., 26s. 6d.; 1 oz., 27s. HYDROCHLORIDE.—25 oz., 20s. 3d.; 4 oz., 20s. 9d.; 1 oz., 21s. 3d. NITRATE.—25 oz., 17s. 6d.; 4 oz., 18s.; 1 oz., 18s. 6d.

POTASSIUM PERMANGANATE.—Makers quote at unchanged rates: B.P., in 1-cwt. drums.—From 1 cwt., 1s. 10d. per lb.; from 3 cwt., 1s. 9½d. Technical, in 1-cwt. drums.—From 1 cwt., 170s. 6d. per cwt.; from 3 cwt., 166s.; from 5 cwt., 163s. 6d., from 1 ton, 161s.; from 4 tons, 158s. 6d. Technical, in 5-cwt. drums.—From 5 cwt., 161s. per cwt.; from 1 ton, 158s. 6d.; from 4 tons, 156s. 3d. Net, delivered nearest railway station in Great Britain, drums extra and returnable.

SANTONIN.—Convention rates are unchanged: 15 kilos and over, £46 10s.; not less than 10 kilos, £47 5s.; not less than 5 kilos, £48 5s.; less than 5 kilos, £50 per kilo, delivered free in the United Kingdom; 1-kilo packages free.

SODIUM SALICYLATE.—Makers' prices per lb. for quantities of 28 lb. and under one cwt. are as follows (containers in brackets): 2s. 6½d. (28-lb.); 2s. 7d. (14-lb.); 2s. 7¼d. (7-lb.); 2s. 7¾d. (4-lb.); 2s. 9½d. (1-lb.). Prices include parcels or collapsible cartons, but other packages are charged extra.

STRYCHNINE SALTS.—British makers' prices per oz. are as follows:—

Compound	Under 100 oz.		100 oz. and under 500 oz.		500 oz. and over	
	s.	d.	s.	d.	s.	d.
Alkaloid, crystalline	3	0	2	10½	2	9
Alkaloid, precipitated	3	0	2	10½	2	9
Acetate	3	2½	3	1	2	11½
Arsenate	3	1	2	11½	2	10
Arsenite	3	2½	3	1	2	11½
Bisulphate	2	4½	2	3	2	1½
Hydrochloride	2	9½	2	8	2	6½
Hypophosphite	5	6	5	4½	5	3
Nitrate, crystalline	2	9½	2	8	2	6½
Nitrate, powder	2	9½	2	8	2	6½
Nitrate, powder, No. 2	2	3	2	1½	2	0
Phosphate	3	7½	3	6	3	4½
Sulphate, neutral, crystalline	2	6	2	4½	2	3
Sulphate, neutral, powder	2	6	2	4½	2	3
Sulphate, neutral, powder No. 2	2	1	1	11½	1	10

25-oz. containers and outer cases free; smaller packages extra. Contracts may be booked for quantities of 100 oz. and over, with rise-and-fall clause, for a period of six months. Terms net thirty days. Wholesale distributors' prices for small quantities would be dearer.

SULPHONAL.—Any small supplies that may remain would be worth about 47s. 6d. per lb.

TANNIC ACID.—About 7s. 6d. per lb. would be the present price for any available spot supplies.

TERPINEOL.—The Ministry of Supply announces that the United Kingdom Naval Stores Association, Ltd., 106 Fenchurch Street, London, E.C.3, has been appointed agent of the Ministry for the distribution of imported terpineol. Sales will be made to approved users for pharmaceutical purposes only. Until further notice the price will be 2s. 6d. per lb., ex store in original containers.

VANILLIN.—Makers' prices are without change: Ex clove oil or guaiacol, five cwt. 22s. 6d. per lb.; one cwt., 22s. 9d.; 56 lb., 23s. less than 56 lb., 23s. 3d., carriage paid in U.K. Tins in cases returnable.

Crude Drugs

ACONITE ROOT.—Small supplies of Indian root can be bought on spot at around 2s. 6d. per lb., but present stocks are restricted.

AGAR.—Small inquiries have been noted for the unrestricted material, and several bales of Kobe No. 1 have gone into consumption at between 60s. and 65s. per lb. Bacteriological is still offered at approximately 25s. to 30s. per lb., but orders are small.

ALOES.—Cape has again been in good demand and spot prices are firm at between 62s. and 65s per cwt., according to holder and quality. No change has taken place in the position of Curaçao.

ANTIMONY.—In supply for official requirements at unchanged prices: English minimum 99 per cent. regulus, £120 per ton, delivered; 70 per cent. crude, £100 per ton, delivered.

ARECA NUTS.—There appear to be no supplies left on spot, and no quotations are available.

BALSAMS.—The spot price of any available supplies of *Tolu* remains in the neighbourhood of 9s. 6d. per lb. Spot prices of the other varieties are as follows: *Copaiba*, B.P., 9s. per lb., nominal; *Peru*, 7s. 9d.; *Canada*, about 7s. 6d., duty paid, ex store.

BENZOIN.—Consuming trade has again been fair. Prices seem to vary considerably, without relation to quality, between £12 and £16 per cwt., according to holders' ideas. Free almondy, on spot, remains at about £30 per cwt.

BISMUTH METAL.—Steady at 6s. 3d. per lb. for minimum 5-cwt. lots of high-grade metal.

BUCHU.—Firm on spot at around 5s. 9d. to 6s. per lb., according to quality.

CALUMBA ROOT.—Dealers' spot prices for any remaining supplies of good washed root would be at approximately 16os. per cwt.

CAMPHOR.—Consuming demand has remained steady, with prices to approved customers as follows: Chinese, B.P., 11s. 6d. per lb.; Chinese crude (92 per cent.), about 10s. per lb.; Japanese slabs, about 11s. 6d. per lb. Restricted quantities of English synthetic, B.P., are

understood to be available to approved consumers at 7s. per lb.

CANTHARIDES.—Spot supplies are exhausted, and no quotations are available.

CARDAMOMS.—Quiet and without quotable change: Aleppy greens, spot, about 5s. 6d. to 5s. 9d. per lb.; shipment, 4s. 4½d., c.i.f. Aleppy seed, spot, about 5s. 9d.; shipment, 5s. 3d., c.i.f. Split seed, spot, about 4s. 9d. per lb.

CASCARA SAGRADA.—The price to users for material imported under the Lease-Lend arrangement will be 150s. per cwt., ex store. Some 1940 peel is offered on spot at 250s.

CASCARILLA.—Supplies of quills are exhausted, but some siftings in dealers' hands would be worth about 2s. 6d. per lb.

CHILLIES.—Business has been light, and prices are unchanged, as follows: Zanzibar, spot, 180s. per cwt.; Mombasa, 180s., sellers; Sierra Leone and Sudan, both 175s., duty paid.

CLOVES.—Zanzibar, spot, 2s. 4d. per lb., sellers; afloat, 1s. 11d., nominal, c.i.f.; Madagascar, unquoted.

COCOA BUTTER.—Except for supplies sold under licence, the price remains at the officially-fixed figure of 1s. 5½d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—The official maximum price remains at 49s. per cwt.

COLCHICUM.—Any small remaining spot supplies of Indian corms would be worth about 5s. 9d. to 3s. per lb.

COLOCYNTH.—Demand continues good, but no supplies are available on spot.

DANDELION ROOT.—Dealers' prices for any remaining small spot supplies would be between 125s. and 135s. per cwt., according to quality and quantity.

DERRIS ROOT.—Unchanged, with some holders still awaiting permission to sell.

DIGITALIS LEAVES.—Spot prices of Portuguese leaves vary between 110s. and 125s. per cwt., according to seller.

DRAGON'S BLOOD.—Fair re-boiled, on spot, is nominal at £40 per cwt.

ERGOT.—Supplies are fairly plentiful, but interest is lacking. No news has yet been received of the new crop. Spot value is from 5s. 3d. to 7s. 6d. per lb., according to quality; shipment, about 7s. to 7s. 3d. per lb., c.i.f.

GINGER.—No news has yet been received regarding the fixing of maximum prices by the Ministry of Food. Quotations are nominal, as follows: West African, spot, 195s. per cwt., if available; Cochin, unwashed, spot, 187s. 6d.

GRAINS OF PARADISE.—Holders of any small spot supplies would require about 1s. 10d. per lb.

GUM ACACIA.—Demand fair, with values unchanged. Kordofan cleaned sorts, spot, unrestricted, about 230s. per cwt., and restricted, about 192s. 6d.; shipment, 72s. 6d., c.i.f.

HONEY.—Official price schedules for first-hand and wholesale transactions were given recently (*C. & D.*, May 9, p. 527).

HYDRASTIS.—Users of material brought in under the terms of the Lease-Lend arrangement will pay 22s. 6d. per lb., ex store, with extra for repacking.

IPECACUANHA.—Business continues moderate, with prices about unchanged. Matto Grosso, spot, about 17s. 6d. to 18s. per lb., according to test; shipment offers are difficult to obtain, but about 17s., c.i.f., would be the price. Minas, spot, about 12s. 6d. per lb.; shipment, between 11s. 3d. and 11s. 6d. per lb., c.i.f. Current prices for EXT. IPECAC. LIQ., in winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

JABORANDI.—Current spot prices range between 55s. and 60s. per cwt. for fair quantities.

JALAP.—Spot price of Brazilian, 16 per cent., is now in the region of 90s. per cwt.; shipment, about 62s. 6d. per cwt., c.i.f., basis 13 per cent.

LEPTANDRA ROOT.—The price to users for supplies imported under the Lease-Lend arrangement will be 1s. 10d. per lb., ex store.

LOBELIA HERB.—The spot price under the Lease-Lend scheme is 2s. 8d. per lb., ex store.

MENTHOL.—Inquiry moderate. Chinese is still being sold on spot at about 71s. to 72s. 6d. per lb., and a few odd lots of Japanese at between 74s. and 75s. per lb.

MERCURY.—Prices for quantities of over 7 lb. are subject to the Control of Mercury (No. 6) Order (*C. & D.*, May 10, p. 295). Quantities of 7 lb. and under were decontrolled by the Control of Mercury (No. 7) Order (*C. & D.*, October 18, p. 86). Official prices range between £48 and £48 15s. per bottle of 76 lb., ex warehouse London.

NUTMEGS.—Prices are at the lower levels indicated last week: West Indian, sound unassorted, spot, 2s. per lb.; wormy and broken, 1s. 9d.; 90's, 2s. 1d.; 80's, 2s. 4d.; Eastern brown, 80's, nominal.

NUX VOMICA.—Inquiry has again been fair. Spot price of Cochin, washed and garbled, is between 37s. and 40s. per cwt.; a parcel of Cochin afloat is reported sold at 35s.

ORANGE PEEL.—Some Curaçao bitter quarters, green, are reported offered on spot at 3s. 9d. per lb.

PEPPERS.—Unpicked whole black Lampong, spot, in bond, 5d. per lb.; white Muntok, 8d.

PIMENTO.—Spot, steady at 2s. 4d. per lb., sellers; shipment, May–June, 160s. per cwt., nominal, c.i.f.

PODOPHYLLUM RESIN.—The price to users under the Lease-Lend arrangement will be 27s. 6d. per lb., ex store.

PSYLLIUM SEED.—Indian, for shipment, quoted at 65s. per cwt., c.i.f.

QUASSIA CHIPS.—No spot supplies appear to be obtainable, and replenishments are not expected for some time.

RHUBARB.—A rather better inquiry. Rough-round, spot, offered at between 7s. 3d. and 7s. 9d., according to quality and holder. Shensi, small supplies on spot, about 9s. 6d. to 10s. per lb.

SARSAPARILLA.—Small supplies of native reddish are offered on spot at around 2s. 9d. to 3s. per lb., according to quantity.

SEEDS.—ANISEED.—No supplies are available. CANARY.—None available. CARAWAY.—No supplies are available. CORIANDER.—Indian, spot, none available at present; English, quoted at 220s. CUMIN.—Malta, 165s. to 170s., duty free; Indian, 165s. DILL.—Spot, quoted at 170s. FENNEL.—Indian, spot, 97s. 6d., duty free. FENUGREEK.—Nothing available. MUSTARD.—English, 130s. to 140s., according to quality.

SENEGA.—Spot price of any available small supplies would be in the region of 7s. 6d. per lb.

SENNA.—Unchanged. Alexandrian medium hand-picked pods, about 4s. 6d. to 5s. 6d. per lb.; Alexandrian leaves, broken, about 1s. 4d. per lb.; Tinnevelly pods, 1s. 3d. to 1s. 5d. per lb. for selected and about 8d. per lb. for f.a.q.

SHELLAC.—Little business is reported, and prices are unchanged. Spot, standard TN orange, 200s. per cwt., value; shipment unquoted. Pure button, unquoted; fine orange, 240s. to 290s. quoted.

SLIPPERY ELM BARK.—The spot price to users of bark imported under the Lease-Lend arrangement will be 1s. 6d. per lb., ex store.

SQUILL.—Spot prices range between 75s. and 90s. per cwt., according to colour.

STRAMONIUM LEAVES.—Indian leaves, on spot, would be worth about 100s. to 105s. per cwt.

STROPHANTHUS SEED.—100 per cent. Kombé, spot, about 11s. per lb.

TONKA BEANS.—Spot stocks are restricted, but prices are unchanged at from 6s. 6d. to 6s. 9d. per lb. for any remaining supplies.

TRAGACANTH.—There are no changes in the current values of the principal medium grades: No. 1, white, £135; No. 2, white, £125; No. 3, white, £100; pale leaf, £90; amber leaf, £70; red and brown leaf, £45; red leaf, from £40; woody and hoggy, from £20, ex store.

TURMERIC.—Madras finger, sound quality, spot, 72s. 6d., paid and value; wormy, 70s.

VALERIAN ROOT.—The spot price of Indian root remains at about 110s. to 120s. per cwt.

WAXES.—Prices are without quotable change: BEES'.—Nominal on spot at 295s. per cwt.; in bond, no quotations; Dar-es-Salaam, no quotations; Japanese, 340s. CARNAUBA.—Fatty grey, 520s., nominal; chalky grey, 515s.; Primeira, 600s. per cwt.

WILD CHERRY BARK.—The spot price under the Lease-Lend arrangement will be 9d. per lb., ex store, with extra for repacking.

WITCH HAZEL (LIQUID EXTRACT).—Supplies imported from America under the Lease-Lend arrangement will be sold to users at 10s. 6d. per gallon, ex store.

Essential and Expressed Oils

ANISE (STAR).—In rather better inquiry, with drums difficult to find at under about 50s per lb.; tins in cases, 51s. to 52s., as to seller.

BAY.—The spot price of any available supplies would be from 11s. to 12s. per lb.

BERGAMOT.—The price of any remaining supplies would be a matter for negotiation around 100s. per lb. being a basis.

BOIS DE ROSE.—Spot quotations are unchanged at around 35s. per lb.

CAJUPUT.—Any available spot supplies are firmly held for about 15s. per lb.

CANANGA.—Present spot value is from 70s to 80s. per lb., but stocks are poor.

CASSIA.—There are no stocks on spot, and no quotations can be obtained.

CEDARWOOD.—Nominal on spot at 6s. 6d.

CITRONELLA.—Demand has again been good. Ceylon, spot, about 16s. 3d. to 16s. 6d. per lb. Java, about 19s. per lb., with considerably higher prices mentioned in some quarters.

CLOVE.—English distillers maintain their price at between 15s. 6d. and 18s. per lb.

EUCALYPTUS.—Spot prices are steady at from 5s. 9d. to 6s. per lb. for 70 to 75 per cent. oil but higher rates would be paid for small lots.

GERANIUM.—Prices are nominal and a matter for negotiation.

GINGERGRASS.—Available on spot in limited supply at about 25s. per lb.

GROUNDNUT.—The official price of refined deodorised is without change at £44 10s. per ton, naked ex works.

LAVENDER.—The spot value of good-quality oil would be about 85s. per lb.

LEMONGRASS.—Prices are firm at about 18s. 6d. to 21s. per lb., for spot, according to quantity.

LINSEED.—The official quotation for crude oil is unchanged at £41 10s. per ton, naked ex works.

PALMAROSA.—Spot prices are steady at around 35s. per lb.; shipment, about 27s., c.i.f.

PATCHOULI.—Spot quotations are nominal at 70s. per lb.

PEPPERMINT.—Inquiries are moderate, but orders are not easy to fill on account of the restricted supply position. For Chinese, spot about 77s. 6d. to 80s. per lb., is being asked. Limited supplies of Mitcham oil are understood to be available at 115s. per lb.

PETITGRAIN.—The value of any available spot supplies would be in the region of 25s. per lb.

ROSE (OTTO).—About 300s. per oz. would be the spot value of any available supplies.

SANDALWOOD.—Genuine East Indian Mysore remains at 32s. 6d. per lb., for delivery in one-case lots. Australian would be at about 28s. 6d.

THYME.—Medium-quality oil on spot would be worth approximately 16s. per lb.

WORMSEED.—Nominal on spot at 25s. per lb.

Announcement by BAYER PRODUCTS LTD.

BAYER

Bayer Products Limited have pleasure in announcing that in spite of the war-time upward trend in costs, no general increase in the prices of BAYER MEDICAL PREPARATIONS is contemplated at present and their January 1941 Price List is therefore, in general, still current.

EXCEPTIONS are the two undernoted preparations where, due to greatly increased costs of certain of the ingredients, the following prices are now operative :

'THEOMINAL' Brand of PHENOBARBITONE & THEOBROMINE	TABLETS	20's	4/-	'BUTOLAN' Brand of DIPHENAN	TABLETS	7½ gr.	20's 4/-
,, ,,	,,	50's	9/-	,, ,,	,,		50's 9/-
,, ,,	,,	250's	37/6				

NOW MADE IN ENGLAND

(Prices apply to U.K. and Northern Ireland only).

Subject to usual discounts — Purchase Tax extra. To ensure fair distribution, the professions are asked to restrict orders to normal current requirements.

LIMITATION OF PACKINGS

With a view to the elimination of superfluous packings it has been decided not to replace certain packings as stocks run out. Please note that the following BAYER tabletted products will, in future, only be issued in the under-noted packings:—

TRADE MARKS *	DISPENSING PACKING	CLINICAL PACKING
* 'ABASIN' Brand of CETOMAL (4 gr. tabs.)	20's and 100's	—
* 'ADALIN' Brand of CARBROMAL (5 gr. tabs.)	25's and 100's	250's
BAYER ASPIRIN (5 gr.)	25's and 100's	250's
,, ,, (7½ gr.)	20's and 100's	—
* 'BETAXAN' Brand of VITAMIN B_1 (1 mg. and 3 mg.)	20's and 100's	500's
* 'BUTOLAN' Brand of DIPHENAN (7½ gr. tabs.)	20's and 50's	—
* 'CANTAN' Brand of VITAMIN C (50 mg.)	20's and 100's	250's
,, (5 mg.)	50's	250's
* 'ELITYRAN' Brand of THYROID EXTRACT (10 G.P.U.)	30's and 100's	250's
* 'EUMYDRIN' Brand of METHYL ATROPINE NITRATE (1 mg. tab.)	10's and 100's	—
* 'GARDAN' Brand of GAMMADAN (5 gr. tabs.)	25's and 100's	250's
* 'HELMITOL' Brand of FORMAMOL (5 gr. tabs.)	25's and 100's	250's
* 'ISTIN' Brand of DANTHRON (2½ gr. tabs.)	30's and 100's	500's
* 'LUMINAL' Brand of PHENOBARBITONE	10's (3, 5 gr.)	250's and 1,000's
	50's (¾, 2, 2½, 5 gr.)	(¼, ½, 1, 1½ gr.)
	100's (⅛, ¼, ½, 1, 1½ gr.)	—
* 'NOVALGIN' Brand of NYNALGIN (5 gr. tabs.)	25's and 100's	—
* 'NOVOCAIN' Brand of ETHOCAINE HYDROCH.	10's	—
* 'PANFLAVIN' Brand of THROAT TABLETS	30's and 100's	1,000's
* 'PROMINAL' Brand of PHEMITONE (⅛ gr.)	30's and 100's	—
,, ,, ,, (3 gr.)	10's and 100's	—
* 'PYRAMIDON' Brand of AMIDOPYRINE (1½ gr.)	20's and 100's	250's
,, ,, ,, (5 gr.)	25's and 100's	250's
* 'THEOCIN' SODIUM ACETATE Brand of THEOPHYLLINE SOD. ACETATE (1½ gr. tabs.)	20's	—
* 'THEOMINAL' Brand of PHENOBARBITONE and THEOBROMINE (tabs.)	20's and 50's	250's
* 'VERONAL' Brand of BARBITONE (5 gr.)	25's	—
,, ,, ,, (7½ gr.)	10's	—
* 'YATREN' Brand of CHINIOFON PILLS	25's and 100's	—

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PHARMACY AND MEDICINES ACT, 1941

Important Notice

to Pharmacists about

T.C.P *Regd.*

PREPARATIONS

All supplies of the following preparations now being sent out from our Works, bear new labels made out in accordance with the provisions of the Pharmacy and Medicines Act, 1941 :—

T.C.P.
T.C.P. Ointments.
T.C.P. Bronchial Antidote.
T.C.P. B_3 Colloidal Emulsion.

The remaining T.C.P. preparations are not affected by the Act.

Pharmacists are asked to give special attention just now to the correct rotation of their stocks of the above lines, so that old stock is sold first. This should ensure that goods bearing the old labels will be cleared prior to the 1st July, 1942.

British Alkaloids Ltd., 69 Old Broad St., London, E.C.2

In these trying times —

INDICATIONS
General fatigue and debility, hypertension, infective conditions, night blindness.

PACKINGS AND PRICES

80 tablets	3/4½
250 tablets	9/6
1000 tablets	30/7½

(Including Purchase Tax) *P.A.T.A. List*

CAROVIT BRAND CHLOROPHYLL TABLETS

CONTINENTAL LABORATORIES LTD. BRUNEL ROAD, LONDON, W.3.

MOORE MEDICINAL PRODUCTS
LIMITED

M M P

MANUFACTURING CHEMISTS
ABERDEEN and LEEDS

Aberdeen
May, 1942

Dear Mr. Chemist,

BROVON ASTHMA INHALANT

For a long time we have been telling you what good stuff this is and that you run no risk whatever in stocking it.

Here is a recent testimonial from an Irish minister.

Co. Down,
2nd May, 1942.

Sirs,

I have been using your Brovon Inhalation Liquid for the past six months and regard it as the greatest remedy I have ever found. Indeed, since I have begun to use it my attacks are far less intense and far less frequent so that I am confident they will in time disappear altogether.

I have recommended its qualities to a friend whose name and address I give below in the hope that he will find it as invaluable as it has been to me.

Accept my congratulations on a product which, unlike any other asthma remedy I have ever used, has no unpleasant accompaniments and is not attended by the usual feeling of drowsiness and exhaustion.

Yours sincerely,
Rev. W. J. McK. W.

This letter was unsolicited and speaks for itself.

Yours very truly,
MOORE MEDICINAL PRODUCTS LTD.

Blackpool

"Having recently been recommended to try your Curicones for Rheumatism, I am unable to find any chemist in the town stocking same."

Withington, Manchester, 20

"Unfortunately the bottle she got seems to be the last one obtainable in Withington."

Chingford

"I have had much difficulty in getting the Curicones in this district."

Are you losing trade this way?

WHEN you find that your supplier is unable to fill your CURICONES order, write to us giving the name of your wholesaler, and we will do everything we can to get stocks to you without further delay.

Supplies, of course, will still be charged through your usual wholesaler.

Please note that the new prices of CURICONES, including Tax, are Small size 5/-, Medium size 14/-, Large size 24/-.

CURICONES is a P.A.T.A. line, showing 33⅓% profit.

There are at present enough

CURICONES

to give EVERYONE a fair share

STEPHEN MATTHEWS & CO. LTD., 19-21 FARRINGDON STREET, LONDON, E.C.4

SPLENDOR
L I M I T E D

Now sole distributors of
JENNER'S
malted food
sweetened

Because it is exceptionally easy to assimilate Jenner's has been prescribed for over 50 years for exhausted workers, invalids, old people, nursing mothers and infants. A fine wartime food — no coupons.

LIMITED SUPPLIES AVAILABLE

		Retail	*Trade*	
Malt Flavour, small size	.	1/6	14/4	per doz.
,, ,, large size	.	2/8	25/6	,, ,,
Chocolate Flavour, small size		1/6	14/4	,, ,,
,, ,, large size		2/8	25/6	,, ,,

SPLENDOR LTD., 5, BEASTMARKET HILL, NOTTINGHAM AND 7c, LOWER BELGRAVE STREET, LONDON, S.W.1

Sulis is a British Natural Mineral Water comparable both in mineral content and palate appeal to the German and French waters which are now practically unobtainable.

This water is taken direct from the Springs at Bath, Britain's Premier Spa, and sold in still or aerated form.

SULIS
THE BRITISH MINERAL WATER

Prices, discounts and full particulars from:
CATER, STOFFELL & FORTT, LTD., The Springs, BA

"MANOIDS"
THE POTENT BRAIN & NERVE TONIC
FOR MEN

1/3 size, 7/6 doz.
2/3 ,, 13/6 ,,
(plus P. Tax)

FROM ALL SUNDRIES HOUSES, OR

THE
Acton Pill & Tablet Co. Ltd.
ASH VALE SURREY

We Ship
ACONITE, ALESTONIA BARK, BELLADONNA LEAVES, BELLADONNA ROOT, BERBERIS ASAFOETIDA, BRYONIA, CALUMBA ROOT CHIRETTA (Indian Variety, B.P.), COLCHICUM CORMS, DANDELION, DATURA METEL LEAVES, DATURA STRAMONIUM LEAVES EPHEDRA VULGARIS, GLYCYRRHIZAE, HY OSCAMUS NIGER LEAVES, JUNIPER BERRIES PODOPHYLLUM, RHUBARB RADIX, INDIAN SQUILLS, VALERIAN ROOT, RED PEPPER FRUIT, ETC., of guaranteed standard quality

ENQUIRIES INVITED

MEHTA BROTHERS
LAWRENCE ROAD - AMRITSAR - INDIA

"OXOID"

The word "OXOID" is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both in tablet and fluid extract form.

ORGANO-THERAPEUTICAL PRODUCTS

OXO LABORATORY PREPARATIONS

HORMONES

OESTRIN

Indications: Menopause; Menstrual Irregularities; Uterine Inertia; Amenorrhœa; Pruritis Vulvæ; Suppression of Lactation.

Tablets: 1000 I.U. Ampoules: 1000-50000 I.B.U.

STILBOESTROL

Indications: As for Oestrin.

A highly potent œstrogenous substance for oral administration.

Tablets: 0.5 mg., 1.0 mg. and 5.0 mg.
Ampoules: 1.0 mg. and 5.0 mg.

"PITOXYLIN" PITUITARY EXTRACT (P.L.)

Licensed and standardised in accordance with the Therapeutic Substances Act. For the Induction of Labour; Uterine Inertia; Post Partum Hæmorrhage; Surgical Shock; Diabetes Insipidus.

Ampoules. 5, 10 and 20 I.U.

ADRENALIN

Useful for the treatment of Asthma; Epistaxis; Tonsilitis; Hay Fever; Influenzal Crisis; Surgical Shock; etc.

Solution: 1 in 100 and 1 in 1000. Ampoules: 1 in 1000.

Literature supplied on application

OXO LIMITED, Thames House, London. E.C.4

OXO LABORATORY PREPARATIONS

ENO'S
'FRUIT SALT'

INCREASE IN PRICES

Owing to increased costs of production we have at last been reluctantly compelled to increase our prices in Great Britain and Northern Ireland, and *from JUNE 1st* the new Retail Selling Prices will be—

HANDY SIZE 2/- per bottle

HOUSEHOLD SIZE 3/6 per bottle

(Inclusive of Purchase Tax)

Trade Prices are as follows:

HANDY SIZE 17/3 per dozen

HOUSEHOLD SIZE 30/- per dozen

(Subject to the usual Discounts)

The revised Prices and Terms have been arranged and approved in accordance with the Prices of Goods Act.

Selling Agents

VENO DRUG COMPANY LIMITED

Manufacturing Chemists

MANCHESTER 16

Dettol Ointment

presents the active germicidal principle (*P*-chlor-*M*-xylenol) of 'Dettol' antiseptic in a smooth, soothing base. The base is emollient and curative. It penetrates deeply, effecting close and prolonged contact between the bacteria and the bactericide. For all septic, and potentially septic, conditions of the skin, where an ointment form is preferable to a liquid antiseptic, Dettol Ointment may be recommended with confidence.

Packed in Tubes, also 1-lb. jars for Hospital & Surgery use.

RECKITT AND SONS,
HULL AND LONDON. (PHARMACEUTICAL DEPT., HULL)

SAMONA

—makes life worth living

The Wonderful Medical Restorative which brings immediate benefit in all cases of

NERVE STRAIN. DEPRESSION.
TIRED AND LISTLESS APPEARANCE
MENTAL AND PHYSICAL EXHAUSTION

Prices **3/5** and **5/7½** (more than double quantity) (*Including Purchase Tax*)

SAMONA LTD.
Northington House, Northington Street, W.C.

NO SHORTAGE OF SUPPLIES

GOOD PROFITS FOR THE CHEMIST

ESTABLISHED 1793

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

The Best and Safest Infants' Medicine of 140 years' standing

Does not contain any Scheduled Poison

ROBERT BARKER & SON, LTD.
13 WESLEY ST., C. on M., MANCHESTER

Three profitable lines . . .

Licoricine ACTS LIKE MAGIC BRAND

FOR COUGHS AND COLDS
FENOLIN FLUID
AND
ELDON VAPORISERS
FOR WHOOPING COUGH

HALL FORSTER & Co. LTD
NEWCASTLE-ON-TYNE

There will always be an insistent demand for SHERLEY'S DOG PREPARATIONS

Despite the abnormal conditions prevailing, there will always be an insistent demand for Sherley's Dog Preparations as they are recognised by Owners everywhere as the True Standard of Excellence. It would therefore be wise to stock your shelves to capacity so as not to run the risk of disappointing regular customers. We, on our part, will continue to support retailers to the utmost, and maintain the fullest supplies possible.

STOCK YOUR SHELVES with Sherley's Tonic and Condition Powders Sherley's Worm Medicines Sherley's Aperient Powders Sherley's Skincure Sherley's Canker Lotion and Powder Sherley's Fit Tablets Sherley's Veterinary Ointment Sherley's Formalin Soap Lactol Biscuits Sherley's Dog and Cat Books

FREE DISPLAY MATERIAL. Bold, attractive Display Cards for counter and window are supplied to all Sherley stockists, free and post free.

DISCOUNT TERMS

A discount of 10% on minimum £2 parcels will be in future deducted from invoice, rendering the invoice nett 30 days. Orders value £1 and over carriage paid.

Owing to the difficulty in arranging travellers' regular calls, journey accounts are discontinued. Accounts are payable 30 days nett.

A. F. SHERLEY & CO. LTD., Boston Manor Road, Brentford, Middlesex

CAPSULE Makers to the Trade

Quality Products

Many years of specialised experience are at your disposal. Superlative products at keenly competitive prices . . .

Ask us to quote for your next requirements. Own or standard formulae compounded.

CROWN CAPSULE COMPANY

CAMPBELL ST., HELENSBURGH, Scotland

Phone: Helensburgh 356

AN ANNOUNCEMENT

Chemists who have enquiries for tooth sticks should get in touch with Keenes Laboratories Limited, 46 Elswick Road, Newcastle-on-Tyne, 4, who are manufacturing Keenes Dental Stimulators, and these are available in fairly large quantities.

"Adaptocaps"

SELF-SEALING CAPSULES

THE LONDON CAPSULE CO.

EMPIRE WORKS · MITCHAM ROAD · CROYDON

Telephone: THORNTON HEATH 1234/5

The trained mind of the pharmacist puts him in a unique position to view the public in cross-section. It is interesting to him to study the various types who come to him for their needs and for his advice.

There's **THE WOMAN WHO DOES WITHOUT** — worries herself to a shado about food for her family but doesn't eat enough herself. *She* could c with a cup of the Benger's she gives her husband and the children ever night. It would rest her, build up her strength and fortify her digestic against the danger of serious illness. *She* can't afford to be ill. Yet, not she can afford to buy Benger's for the family and does — the No. 2 siz tin for economy . . .

. . . but you can invariably sell them ——— BENGER'S

90% of your customers need Benger's and are being educated to ask for it.

BENGER'S LTD. HOLMES CHAPEL, CHESHIRE.

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

MAY 23 1942

Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY of week of issue. Box Office numbers cost /-. Late advertisements willbe held over to following week.

Fragrant Tonic Hair Cream

"Makes the Hair behave"

Prepare your own supplies of this high grade cream, easy to make up, costs less than 1d. per oz. All materials available, including smart gold seal labels. B.P. Castor Oil, Agar Agar, Gum Tragacanth, Emulsifying Wax, Beeswax, Ceresine Wax, Spermaceti, Bottles, Screw caps and corks. Send for List.

BRITISH COMMERCIAL CHEMICALS AND SUPPLIES,
4 Cavendish Place, London, W.1
LANGHAM 1183

WE OFFER
SWEET ORANGE OIL
(Jaffa Hand-pressed and Jamaica)
INDIAN LIME OIL
EUCALYPTUS OIL, 70-75%
SPANISH ROSEMARY OIL
EUGENOL and ISO-EUGENOL
CINNAMON LEAF OIL
JAVA CITRONELLA
SAMPLES AND PRICES
CHEMICALS & ESSENTIAL OILS LTD.
ASTOR HOUSE, 95 ALDWYCH, LONDON, W.C.2
Chancery 6116-7

SULPHONATED LAURYL ALCOHOL SUBSTITUTE (for Preparing Soapless Shampoos), 3/6 lb. ENVELOPES, 4/- 100. LIQUID STOCKING COLOURS (Beige, Tan and Gunmetal), 8/- lb. CONTAINERS for same, 2/- doz.
HARMAN DIETETIC LABORATORIES, LTD.
109 Broadway, Cricklewood, N.W. 2.

OPTICAL TUITION
FOR THE
S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations
Particulars:—
C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

GRINDERS & PULVERISERS
TO THE TRADE . . . All Commodities
We offer Competitive Prices, Efficient Service
Prompt Deliveries . . Enquiries invited
BOMBAY MILLS, 2-7 Bombay St., S.E.
Phone, BERMONDSEY 3411

EMULSIFYING BASE for PREPARING WHITE BRILLIANTINE CREAM
Together with formula for use, 7/6 lb.
Postage Paid, Cash with order.
CREST LABORATORIES LTD.
443 Bury New Road, Salford, 7

Tablet Manufacturers are in a position to accept Contracts or Sub-Contracts for tabletting (including Saccharin), in large or small quantities. Own materials tabletted, also to your own formulæ. Packing facilities available and prompt delivery assured. Competitive price. Send enquiries CDB/1005 London Office of this Paper.

Hair Cream Jars, Screw Caps. **48s.** gross.
2-ounce Panels, Bakelite Screw Caps. **30s.** gross.
4-ounce Panels, Bakelite Screw Caps. **36s.** gross.
(All Clear Flint)
C.W.O. Carr. Paid (not less than 5 gr. of a line supplied). *Goods despatched same day.*
E. CHARLTON, King St., Farnworth, Lancs.
Tel.: 298

OFFERED

Talc, Super White, 200-lb. bag, 60/-; **Zinc Oxide,** B.P., 56 lb., 27/6; **Stearate,** cwt. 2/3 lb.; **Gum Trag. Pulv.,** B.P., 28 lb., 7/6, 9/9, 13/9, 18/3, 21/9, 26/9 lb.; **Stearine Powder,** cwt. 2/3 lb.; **Block,** cwt. 2/3 lb.; **Spermaceti,** Opt. White, 60-lb. box, 2/3 lb.; **Kaolin,** B.P. Opt., cwt. 25/-; **Liquid Soap or Shampoo,** 5-gall. Drum, 40/- ea. (Tax Paid); **H.P. Alex Senna Pods,** 10-lb. bag, 5/6 lb.; **C.W.O.** Also **Gumkaraya Pulv.; Waxes,** all Kinds; **French Chalks; Cret. Praecip.; Menthol; Oils; Soap Powder** and **Bar; Gum Acacia** Opt. Cwt. Prices on application. Special W/sale Prices.
HENSHAW, M.P.S., Wyke Regis, Dorset

YOURS—A PROFIT ON 13000 CHEMISTS' & CHAIN SALES

Make your best "own label" seller a national proprietary. If product sufficiently new and distinctive, therapeutically sound with significant local demand, advertiser (20 years' experience and responsible several well-known successes you are now selling in large volume) will market nationally on liberal 99-year royalty basis. No capital required. Write indicating nature of product, claims, nearest competitive articles, approx. costs. No formula yet please. Highest credentials given and required. CDB/1056, London Office of this Paper

Chemists are permitted to make Proprietaries (including Cosmetics) for Retail Sale at the rate of £41 13s. 4d. per month, (Board of Trade Order, S.R. & O., 1941, 1686). We can supply the raw materials, including Essential Oils, Colours, Packings and Instructions for the manufacture of the following:—
5 lb. FACE POWDER, 20/6, tax 13/8, all.
5 lb. BATH TALCUM, 12/6, tax 8/4, all.
1 lb. ROUGE POWDER, 20/6, tax 13/8 all.
Terms: C.W.O. or C.O.D. 1/- extra.

HARMAN DIETETIC LABORATORIES, LTD.
109 BROADWAY, CRICKLEWOOD, N.W.2

JASON & STUART
(PRODUCTS) LTD.
PLANE ST. MILLS
OLDHAM, LANCS.

We regret very much our inability to supply all orders received to date, but every endeavour is being made to complete outstanding orders as quickly as possible.

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

(RETAIL HOME)

ASSISTANT Lady Pharmacist (M.P.S. qualification) required in the dispensary of a Manchester hospital. Salary £250 per annum with luncheon and tea provided. Federated Superannuation Scheme in force. Applications stating age, date of qualifying experience and full particulars, to be forwarded, with copies of three recent testimonials, on or before May 27 to 403/782, London Office of this Paper.

Addenbrooke's Hospital

CAMBRIDGE

Temporary Assistant Pharmacist (male or female) with Hospital experience required. Commencing salary £4 10s. weekly.
Male applicants should be reserved or otherwise exempt from service with the Armed Forces.
Applications stating age, qualifications and experience to be forwarded to the undersigned immediately.

J. A. BEARDSALL,
Secretary-Superintendent.

City of Leicester Education Committe

LEICESTER COLLEGE OF TECHNOLOGY AND COMMERCE
THE NEWARKE

(Principal: L. W. KERSHAW, B.Sc., A.M.Inst.C. F.G.S.)

Applications are invited for the post of LECTURER IN PHARMACEUTICAL SUBJECTS. Applicants must possess the Diploma of Pharmaceutical Chemist and preferably be also Graduates in Pharmacy. The post offers facilities for research or study for a higher degree.
Salary in accordance with the Burnham Scale.
Applications, by letter, together with the names of three persons to whom reference may be made as to ability and experience, should be sent to the Principal not later than the 13th June, 1942. Further particulars may be obtained upon application to the Principal.

H. S. MAGNAY,
Director of Education.

Education Office,
Newarke Street,
Leicester.
May 16, 1942.

County Borough of Burnley

MUNICIPAL GENERAL HOSPITAL

Applications are invited for the appointment of whole-time pharmacist (female), non-resident. Candidates must hold one of the qualifications of the Pharmaceutical Society. Salary will be in accordance with the Special Women's Grade, commencing at the 3rd year, that is, £262 per annum rising by two annual increments to £289 per annum, subject to variation in accordance with the cost of living. Conditions of appointment and forms of application may be obtained from the Medical Officer of Health, Public Health Department, St. James's Street, Burnley, to whom applications should be returned not later than June 4, 1942.

ARCHIBLAD GLEN,
Town Clerk.

Town Hall,
Burnley.
May 15, 1942.

COMPETENT Dispenser, as unqualified Assista (male or female), for middle-class, old-establish family business in pleasant neutral area. Permanen Hours 9 to 6.30 (Winter 5.30). Dobson, 321 Ballar Lane, North Finchley, London, N.12. (Telephon Hillside 0255).

DRUG Department; experienced Counter Assista required, male or female. Apply Staff Offi Welwyn Stores (1929), Ltd., Welwyn Garden Cit Herts.

GLASGOW. Qualified Assistant (lady or gentlema required for working-class district. Dispensi and Counter. Permanency. State age, experien and salary required to 403/734, London Office of tl Paper.

IMMEDIATE vacancies. Qualified staff for Bran Management. London and Provinces. Give f particulars of experience and salary required G.T.M., c/o Woodlands Chemists, Ltd., 2 Lowth Road, Holloway, N.7.

LEWIS & BURROWS have vacancies for Summ Relief Assistants, men and women, qualified a unqualified. Apply 146 Holborn, E.C.1.

MANAGER wanted for high class Pharmacy wi large photographic connection. Staff of twel Good salary for capable man. Arthur Enock, Lt 201 Linthorpe Road, Middlesbrough.

HARMACY. Experienced qualified and unqualified Assistants required to replace employees who have en called to H.M. Forces. Apply in writing, stating e and experience, to the Staff Manager, Royal senal Co-operative Society, Ltd., 113 Powis Street, oolwich, S.E.18. Endorse envelope " Pharmacy."

ENDLETON Co-operative Industrial Society, Salford, require the services of a qualified armacist, exempt, either sex, for duration. Apply th full particulars, salary, etc., to the Manager, rug Warehouse, Cobden Street, Salford, 6.

HARMACEUTICAL Chemists, for retail trade required, to work in any of the following districts : ntral London, Ilford, Croydon, Kingston, Wood een. A good salary is offered. 404/784, London fice of this Paper.

UALIFIED Manager wanted, Hayes district. Capable of taking complete charge. Good salary d commission. Apply Meads, Wembley Pharmacy, d., 3 Oakington Parade, Wembley, Middlesex.

UALIFIED Chemist (male or female) required as Branch Manager. Permanency. State age, perience, salary required, and when free, to Manager, armacy Department, Ipswich Industrial Co-opera- e Society, Ltd., 38 Carr Street Ipswich.

OUTH OF ENGLAND. Following the calling up of managers for H.M. Forces, we invite applications m qualified men and women for managerial vacancies w becoming vacant at Camborne, Eastbourne, rtsmouth, Bexhill, Dartford, Paignton, Weymouth, le of Wight, etc. Progressive salaries and commission. ll particulars to Retail Drug Department, Timothy hites & Taylors, Ltd., 70 Vauxhall Bridge Road, ndon, S.W.1.

7 PER WEEK. Qualified Chemist (male or female required as branch manager for modern suburban business, near Liverpool. Pleasant working nditions, reasonable hours. Full particulars of perience, age, etc. CDB/1055, London Office or this per.

AYLORS BRITISH CHEMISTS have vacancies for qualified Managers and Assistants in Glasgow d other parts of Scotland. Please give full par- ulars in first letter, stating best time and day for terview to Austin, 1 St. Enoch Square, Glasgow, C.1.

AYLORS BRITISH CHEMISTS will shortly have vacancies for Qualified Managers and Assistants, ale or female, in Birmingham and Midlands, Hudders- ld, Houghton-le-Springs, Leeds, Hemsworth, Shef- ld, Hull. Apply Retail Staff Dept., Burley Hill, eds.

AYLORS, The Chemists, have vacancies in London for capable Unqualified Assistants in Acton, aling, Peckham, Holloway, Hammersmith, and Step- ey. Apply by letter to Retail Staff Manager, Taylors, he Chemists, 70, Vauxhall Bridge Road, S.W.1

HE Berks Pharmacy, Wokingham, require compe- tent Assistant, male or female, at an early date, referably with experience of good-class country harmacy. Capable dispenser and window dressing bility. Apply by letter, marking envelope " Staff " Manager, Berks Pharmacy, 1 Market Place, Vokingham, Berks.

NQUALIFIED Assistant (either sex) required for Central Pharmacy. Please state age, experience, alary required, and when free, to Manager, Pharmacy epartment, Ipswich Industrial Co-operative Society, td., 38 Carr Street, Ipswich.

VANTED, permanently, qualified Chemist, either sex, but if male must be exempt. Wages £6 per eek. Apply stating age, etc., A. J. Drinkwater, Ltd., 9 Reddish Lane, Gorton, Manchester, 18.

VANTED, qualified Assistant, either sex, for the duration. Apply at once, stating age, experience d salary required, to Sowerby Bridge Industrial ociety, Ltd.

LOCUMS WANTED

LOCUM Dispenser wanted; country practice. Bedfordshire, from July 27 for five or six weeks, £4 a week. Apply Dr. Barnes, Woburn, near Bletchley.

QUALIFIED Locum required for about three months during summer. Apply with full particulars to the Secretary, Co-operative Society, Ltd., Free School Lane, Lincoln.

STOKE-ON-TRENT CORPORATION. Locum Dispenser (fully qualified) required : 1st to 13th June (inclusive) ; 15th to 27th June (inclusive) ; 13th to 19th September (inclusive) ; at the London Road Hospital, Stoke-on-Trent. Applications stating terms to Town Clerk, Social Welfare Department, Kingsway, Stoke-on-Trent.

WHOLESALE

ANALYTICAL and/or Research Chemist—Manufacturers and Distributors of large range of Food Products require immediately experienced Chemist for permanent position of responsibility. State experience, qualifications and salary required. 402/747, London Office of this Paper.

SURGICAL Instruments, Drugs, Dresings and Sundries. Representative required for Leeds and Bradford districts. Existing connexion given to energetic man, resident in the district preferred, and with some knowledge of the Surgical trade would be an advantage. Apply with full details as to experience, age, salary required. 404/787, London Office of this Paper.

WAR-TIME STAFF ECONOMY.—Representatives calling on hospitals and medical practitioners required to carry world-known ethical proprietaries for sale direct to the profession. Generous commission (no expenses). Position capable of producing £10 per week to active salesmen. State in confidence past experience, territory covered and products now handled. 403/778, London Office of this Paper.

WANTED—Qualified Works Manager for Midlands firm. Must be experienced in the manufacture of all types compressed Tablets and Pills. Apply CDB/1048, London Office of this Paper.

FOR SALE (Retailers' Surplus)

7/6 for 36 words or less, 2d. for every additional word.

MOULDED Plastic Tubes, assorted attractive colours, externally 2½ in. × ½ in., hollow cap, suitable for styptic, lipstick or iodine pen of 9 millimetre diameter, 48s. for 1 gross (minimum) ; 5 gross at 46s. Cash with order. Carriage paid. Shelley, Caldmore, Walsall.

RUBBER Preventives for disposal, all kinds. Bulk or Packed, also the following items : Bottles Sun Tan Oil, Rendell's Pessaries, Female Pills. Rubber Soothers, Sun Glasses, Powder Boxes, sundries. State requirements. CDB/1058, London Office of this Paper.

SHOP FITTING

MYERS OF OLD ST. THE PHARMACY FITTERS

ALL PHARMACY FITTINGS. New and Secondhand

—From the single unit—

to the complete Pharmacy

Write, Phone or call

L. MYERS, 133-135 OLD ST., E.C.1. Phone: CLE 6381

SITUATIONS WANTED

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Acts; or has a Ministry of Labour permit to allow her to obtain employment by individual effort

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

CHEMIST: Eire qualified Assistant, male, exempt, 29, nine years' experience, excellent references available. State salary, hours, nature of employment. 404/785, London Office of this Paper.

WHOLESALE

B. PHARM., Ph.C. (24), exempt, requires position with Manufacturing Chemists, etc., would like Veterinary Medicine or Biological work. 403/777, London Office of this Paper.

QUALIFIED (39) desires position of responsibility, permanency, experienced all branches. Must be position with scope and where initiative would be appreciated; Lancs., Yorks preferred. 403/779, London Office of this Paper.

REPRESENTATIVE requires additional lines or agencies on commission only. CDB/1052, London Office of this Paper.

YOUNG Man, 9 years' Pharmacy experience, good connexions and bank references, would repr seent well-known firm in Northern Ireland. 403/780, London Office of this Paper.

WANTED

7/6 for 36 words or less, 2d. for every additional word.

GLYCERINE wanted any quantity. Pyke, Chemist, North Road, Preston.

LACTOSE B.P. WHITE wanted in quantities of 56 lbs. upward for (*a*) Cash; or (*b*) Part Cash payment and F/S Sacch. Tab. Replies to M.P.S., 38/40 Church Street, Radcliffe, Lancs.

MANUFACTURING Chemist urgently requires Granulating Machine, 28 lbs. to 1 cwt. capacity. Send full particulars, 403/774, London Office of this Paper.

MIXING and Sifting Machine, for Toilet Powders, also Vita Grape Juice. Revill, Chemist, Lytham.

OILS or Fats and Glycerine, also BlockSteaarine wanted. Box 56, Pool's, Brettenham House, Lancaster Place, W.C.2.

REQUIRED. Residuary, waste and by-products or unrequired stock, if difficult to dispose of. Send details. 403/767, London Office of this Paper.

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